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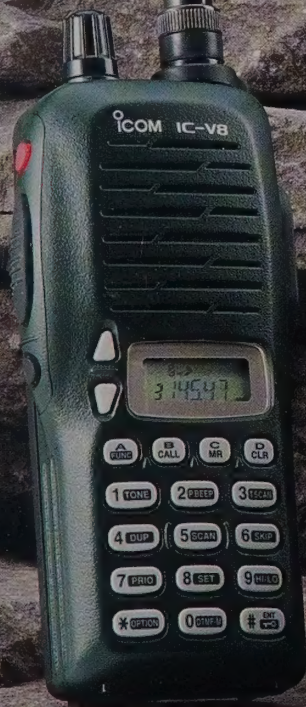
AMATEUR ELECTRONIC SUPPLY

HAM RADIO CATALOG

SPRING/SUMMER 2002



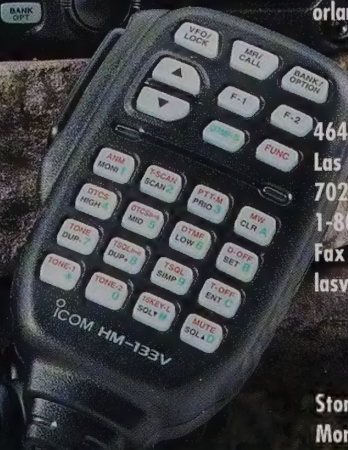
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Big rig features like DSP and 100W of output power, yet no bigger in size than most mobile rigs, the 706MKIIG is the perfect portable rig!



- 160-10M/6M/2M/70CM
- HF/6M @ 100W, 2M @ 50W, 70CM @ 20W
- AM, FM, WFM, SSB, CW, RTTY; w/DSP
- 107 Alphanumeric Memories
- CTCSS Encode/Decode w/Tone Scan
- Auto Repeater
- Plug-n-Play Filters

HF+6M+2M+70CM

IC-718

Advanced performance at a start-up price

- 160-10M@100W, AM@40W
- AM, SSB, CW, RTTY
- Optional DSP
- IF Shift
- 12V Operation
- Built-in CW Keyer
- One Touch Band Switching
- Direct Frequency Input
- Large Front Firing Speaker
- 101 Alphanumeric Memories
- Built-in Keyer
- 500kHz - 30.0 MHz Rx
- VOX
- PC Programmable*

ICOM RIGS GIVE YOU THE ADVANTAGE.

Maybe it's our inovative engineering. Or our attention to quality. Or that every ICOM radio is an exceptional value. But we believe the advantage is that we listen to you, the amateur radio enthusiast. Whatever the reason, don't settle for less. Get an ICOM and **GET THE ICOM ADVANTAGE!**



IC-746PRO

Advanced HF w/6M & 2M

- 10-2M@100W, AM@40W
- AM, FM, SSB, CW, RTTY
- 32 Bit IF-DSP
- + 24 Bit AD/DA Converter
- Selectable IF Filter Shapes for SSB & CW
- Enhanced RX
- SSB/CW Synchronous Tuning
- AGC Loop Managment
- Automatic & Manual Notch Filters
- Digital Twin Passband Tuning (PBT)
- Built-in RTTY
- Twin Peak Audio Filters
- TX Audio Passband
- Auto Antenna Tuner
- VOX
- PC Controllable*



IC-910H

More power, Go anywhere size

- 2M@100W/70CM@75W
- FM, FM-N, SSB, CW
- Optional DSP
- Simultaneously Work Two Bands at Once
- 9600 bps High Speed PACKET Port
- .11 uV Sensitivity
- Main & Sub Band Functions for IF Shift, Sweep, NB, RF Attenuator
- Large LCD Display
- Four Versatile Scanning Functions
- CTCSS Encode/Decode/Tone Scan
- Built-in CW Keyer
- Memory Pad
- Normal/Reverse Satellite Functions
- Optional 1200 MHz Band Unit
- PC Controllable*



IC-756PROII

The best gets better

- 160-6M@100W, AM@40W
- AM, FM, SSB, CW, RTTY
- 32 Bit IF-DSP
- + 24 Bit AD/DA Converter
- Selectable IF Filter Shapes for SSB & CW
- Enhanced RX Performance
- SSB/CW Synchronous Tuning
- AGC Loop Managment
- Automatic & Manual Notch Filters
- Digital Twin Passband Tuning (PBT)
- Built-in RTTY
- 5" Color Display w/Spectrum Scope
- Advanced CW Functions
- 101 Alphanumeric Memories
- Auto Antenna Tuner
- VOX
- PC Controllable*

IC-775DSP

Pull out the weak signals!

- 160-10M@200W
- AM, FM, SSB, CW, RTTY
- IF-DSP with Noise Reduction
- Auto and Manual Notch Filters
- Audio Peak Filter
- Twin Passband Tuning
- Adjustable Noise Blanker
- Dual Watch
- Adjustable AGC
- CW Keyer
- CTCSS Encoder
- Auto Antenna Tuner
- VOX
- PC Controllable*



Most ICOM rigs are PC programmable with select ICOM options



IC-T2H SPORT

Grab-It-Go convenience

- 2M
- 6W Out of the box
- 40 Alphanumeric Memories
- Auto Repeater
- CTCSS Encode/Decode w/Tone Scan
- Alkaline Case Only
- All Accessories Available Separately
- Perfect Back-Up or Second HT



IC-U8

Rugged, easy to use 2M

- 2M
- 5.5W Out of the box
- 100 Alphanumeric Memories
- Auto Repeater
- CTCSS/DTCS Encode/Decode w/Tone Scan
- Excellent Recovered Audio
- Drop-in Charger Included



IC-Q7A

Super small size, big sound

- 2M/70CM
- Wide Band Rx¹: 30 to 1300MHz
- 200 Memories
- Auto Repeater
- CTCSS Encode/Decode w/Tone Scan
- Includes "AA" Ni-Cds & Charger
- Work One Band at a Time



IC-T22A

Small size, big performance

- 2M
- 5W Output
- 40 Alphanumeric Memories
- Wide Band Rx, Air Band¹
- CTCSS Encode/Decode w/Tone Scan
- Alphanumeric Message Pager
- Easy to Use

IC-T81A

World's first QUAD band HT

- 6M/2M/440MHz/1.2GHz
- 5/5/5/1W Output
- 124 Alphanumeric Memories
- Auto Repeater
- CTCSS Encode/Decode w/Tone Scan
- Ni-Mh Battery
- Water Resistant

IC-T7H

Powerful performance

- 2M/70CM
- 6W Output
- 70 Alphanumeric Memories
- Auto Repeater
- CTCSS Encode/Decode w/Tone Scan
- Air Band Receiver¹
- Easy to Use



IC-2100H

Rugged 2 Meter

- 2M
- 50W Output
- 113 Alphanumeric Memories
- Backlit Remote Control Mic
- MIL. SPEC 810 C/D/E¹¹
- CTCSS Encode/Decode w/Tone Scan
- Auto Repeater
- Large Keys and Knobs

IC-207H

Compact, detachable head*

- 2M/70CM
- 45W VHF/35W UHF
- 182 Memories
- Backlit Remote Control Mic
- AM Aircraft Rx
- CTCSS Encode/Decode w/Tone Scan
- Auto Repeater
- Remote Head Capable



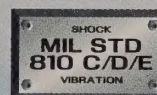
IC-U8000

Power when you need it!

- 2M
- 75W Output
- 207 Alphanumeric Memories
- Backlit Remote Control Mic
- FM Narrow Mode
- CTCSS/DTCS Encode/Decode w/Tone Scan
- Weather Alert & Channel Scan



Most ICOM HTs meet



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ICOM[®]

*Optional equipment required. ¹Reception guaranteed on US ham bands only. ¹¹MIL STD 810 C/D/E for shock/vibration. ©2002 ICOM America, Inc. 2380 116th Ave NE, Bellevue, WA 98004. 425-454-8155. The ICOM logo is a registered trademark of ICOM, Inc. All specifications are subject to change without notice or obligation. AMSPREAD102

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ADI (ADI) AES Price

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CHA-120 Wall charger for RBP-120 batt ...	12.99
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MQA-999 Rapid charger	59.99
PTC-001 Mobile power pack	28.99
RBP-22H 12v 1000ma NiMH battery	69.99
SD-911 Rapid charger	62.99

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See Premier for speaker/mics for ADI/Pryme HTs

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ATOC (ATO)

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ALINCO (ALI)

DJ-C5T 300mw cc size 2m/440 HT/lith ion/spkr	\$149.99
EDC-16B Cigarette lighter cable w/filter	21.99
EDC-36 Angle plug power cable w/filter	24.99
EME-12 Headset w/earphone/mic/VOX	71.99
EME-13 Headset w/ear bud/mic/VOX	71.99
EME-15 Earphone/mic w/VOX	56.99
EME-16 Tie-pin mic & earphone	14.99
EME-17 Boom earphone mic	32.99
EME-18 Earphone	8.99
EDS-7 Mic adapt; EME-12/13/15/16/17/18	12.99
EME-20 Tie-pin mic & earphone	17.99
EMS-49 Miniature lapel spkr/mic	32.99
EMS-50 Speaker/mic	41.99
ESC-34 Soft case w/belt clip	13.99
DJ-280TH 5w 220 FM HT/batt/cgr/TTP	189.99
EB-3 Belt clip	3.99
EBP-24N 7.2v 1200ma batt; 180/580/582T	80.99
EBP-28N 12v 700ma batt; 180/582	70.99
EDC-16B Cigarette lighter cable w/filter	21.99
EDC-36 Angle plug power cable w/filter	24.99
EDC-37 13.8v power cable	7.99
EDC-43 Cig lighter cable	10.99
EDC-45 Desk quick charger	79.99
EDC-49 Batt cgr; EBP-20/22/24/26/28N ...	22.99
EDH-11 AA alk pack; DJ-180/580/582T	12.99
EDH-12 DC jack adapter; DJ-180/280TH ...	12.99
EJ-14U 50 ch mem unit; DJ-180/280TH	21.99
EJ-15U 200 ch mem unit; DJ-180/280TH ...	30.99
EME-6 Earphone	10.99

Alinco - continued **AES Price**

EME-11	Ear/microphone w/PTT/VOX	D	24.99
EME-12	Headset w/earphone/mic/VOX		71.99
EME-13	Headset w/ear bud/mic/VOX		71.99
EME-15	Earphone/mic w/VOX		56.99
EME-16	Tie-pin mic & earphone	D	14.99
EME-17	Boom earphone mic		32.99
EME-20	Tie-pin mic & earphone		17.99
ESC-18	Soft case; 180TH/EBP-26N		14.99
ESC-19	Soft case; 180TH/EBP-28N		17.99
EBP-35N	7.2v 900ma nicad batt; DJ-G5TH Δ		49.99
EDC-52	Quick charger; DJ-G1T	Δ	19.99
EDC-55	Drop-in cgr; EBP30/31/32N; G1T Δ		2.99
EJ-28U	CTCSS decoder unit; DJ-191TH	Δ	14.99
ESC-23	Soft case for EBP-30N; DJ-G1T Δ		2.99
ESC-24	Soft case; EBP-31N/32N; G1T	Δ	.99
DJ-196T	5w 2m FM HT/batt/cgr/TTP		139.99
DJ-496T	5w 440 FM HT/batt/cgr/TTP		149.99
DJ-596T	5w 2m/440 FM HT/NiMH/cgr/TTP ..		209.99
EBC-6	Mobile bracket		15.99
EBP-48N	9.6v 700ma 5w nicad battery		64.99
EBP-50N	9.6v 700ma 5w NiMH battery		23.99
EBP-51N	9.6v 1500ma 5w NiMH battery		37.99
EDC-16B	Cigarette lighter cable w/filter		21.99
EDC-36	Angle plug power cable w/filter		24.99
EDC-37	13.8v power cable		7.99
EDC-43	Cig lighter cable		10.99
EDC-88	Quick charger; nicad battery packs		60.99
EDC-97	Quick charger; NiMH battery packs		70.99
EDH-30	Dry cell battery case		15.99
EJ-43U	Digital board for DJ-596T only		109.99
EME-6	Earphone		10.99
EME-12	Headset w/earphone/mic/VOX		71.99
EME-13	Headset w/ear bud/mic/VOX		71.99
EME-15	Earphone/mic w/VOX		56.99
EME-16	Tie-pin mic & earphone	D	14.99
EME-17	Boom earphone mic		32.99
EME-20	Tie-pin mic & earphone		17.99
EMS-47	Spkr/mic w/volume control		24.99
ERW-4C	PC cable		39.99
ESC-36	Soft case for EBP-48N		13.99
DJ-V5TH	5w 2m/440 FM HT/batt/cgr/TTP		209.99
EBP-46N	9.6v 600ma 5w nicad battery		64.99
EDC-16B	Cigarette lighter cable w/filter		21.99
EDC-36	Angle plug power cable w/filter		24.99
EDC-37	13.8v power cable		7.99
EDC-43	Cig lighter cable		10.99
EDC-91	Quick charger		60.99
EDH-29	Dry cell case for 4-AA's		12.99
EME-6	Earphone		10.99
EME-12	Headset w/earphone/mic/VOX		71.99
EME-13	Headset w/ear bud/mic/VOX		71.99
EME-15	Earphone/mic w/VOX		56.99
EME-16	Tie-pin mic & earphone	D	14.99
EME-17	Boom earphone mic		32.99
EME-20	Tie-pin mic & earphone		17.99
EMS-82	Remote speaker/mic		50.99
EMS-47	Spkr/mic w/volume control		24.99
ESC-35	Soft case for EBP-45N/46N		13.99
DJ-S11T	340mw 2m FM HT/battery holder ..		79.99
EBC-6	Mobile bracket		15.99
EDC-78	Wall charger; (not for alkalines) ..		7.99
EDH-18	12v to 5.5v DC/DC conv/cig plug ..		32.99
EME-6	Earphone		10.99
EME-12	Headset w/earphone/mic/VOX		71.99
EME-13	Headset w/ear bud/mic/VOX		71.99
EME-15	Earphone/mic w/VOX		56.99
EME-16	Tie-pin mic & earphone	D	14.99
EME-17	Boom earphone mic		32.99
EME-20	Tie-pin mic & earphone		17.99
EMS-47	Spkr/mic w/volume control		24.99
ESC-27	Soft case		16.99

Alinco - continued **AES Price**

DJ-S40T	500mw 440 FM HT/battery holder ..		89.99
EBC-6	Mobile bracket		15.99
EBP-52N	3.6v 500ma NiMH battery		37.99
EBP-53N	6v 500ma NiMH battery		45.99
EBP-54N	3.6v 1500ma NiMH battery		49.99
EDC-37	13.8v power cable		7.99
EDC-43	Cig lighter cable		10.99
EDC-105	Drop-in NiMH battery cgr, less ps ..		24.99
EDC-93	Wall ps for EDC-105		10.99
EDH-31	Dry cell battery case		12.99
EME-6	Earphone		10.99
EME-12	Headset w/earphone/mic/VOX		71.99
EME-13	Headset w/ear bud/mic/VOX		71.99
EME-15	Earphone/mic w/VOX		56.99
EME-17	Boom earphone mic		32.99
EME-20	Tie-pin mic & earphone		17.99
EMS-82	Remote speaker/mic		50.99
EMS-47	Spkr/mic w/volume control		24.99
ERW-4C	PC cable		39.99
ESC-38	Soft case		13.99
DJ-X2T	522KHz-1GHz cc size Rcvr/lith ion/cell bldk ..		219.99
EDC-36	Angle plug power cable w/filter		24.99
EDC-37	13.8v power cable		7.99
EDC-43	Cig lighter cable		10.99
EDH-27	Dry cell case w/charger		38.99
EDH-28	DC/DC converter w/cig plug		35.99
ESC-34	Soft case w/belt clip		13.99
DJ-X3T	1.1MHz-1.3GHz AM/FM hand Rcvr/cell bldk ..		209.99
EBP-52S	3.6v 500ma NiMH battery		37.99
EDC-105	Drop-in NiMH battery cgr, less ps ..		24.99
EDC-93	Wall ps for EDC-105		10.99
EDH-31S	Dry cell battery case		12.99
DJ-X10T	1.1MHz-2GHz AM/FM/USB hand rcv/cell bldk ..		309.99
EBP-33N	4.8v 650ma nicad battery		34.99
EBP-34N	4.8v 1200ma nicad battery		84.99
EBP-37N	4.8v 700ma nicad battery		34.99
EDC-16B	Cigarette lighter cable w/filter		21.99
EDC-36	Angle plug power cable w/filter		24.99
EDC-37	13.8v power cable		7.99
EDC-43	Cig lighter cable		10.99
EDC-60	Quick charger	Δ	59.99
EDC-88	Quick charger; nicad battery packs ..		60.99
EDH-16	Dry cell battery case		12.99
EME-6	Earphone		10.99
ERW-4C	PC cable		39.99
ESC-28	Soft case for EBP-33N		13.99
ESC-29	Soft case for EBP-37N		13.99
ESC-30	Soft case for EBP-34N		13.99
DJ-X2000T	1.1-2149MHz receiver/cell blocked ..		499.99
EBP-33N	4.8v 650ma nicad battery		34.99
EBP-34N	4.8v 1200ma nicad battery		84.99
EBP-37N	4.8v 700ma nicad battery		34.99
EDC-16B	Cigarette lighter cable w/filter		21.99
EDC-36	Angle plug power cable w/filter		24.99
EDC-37	13.8v power cable		7.99
EDC-43	Cig lighter cable		10.99
EDC-60	Quick charger	Δ	59.99
EDC-88	Quick charger; nicad battery packs ..		60.99
EDH-16	Dry cell battery case		12.99
EME-6	Earphone		10.99
ERW-4C	PC cable		39.99
ESC-28	Soft case for EBP-33N		13.99
ESC-29	Soft case for EBP-37N		13.99
ESC-30	Soft case for EBP-34N		13.99
DR-M06TH	20w 6m FM Xcvr/TTP/encoder		259.99
MB-130	Extra mobile bracket		19.99
HK-130	Hardware kit for MB-130		4.99
PC-15B	Extra DC cable		10.99
DR-135T	Black 50w 2m FM Xcvr w/TTP mic ..		169.99
DR-235T	Black 25w 220 FM Xcvr w/TTP mic ..		249.99
DR-435T	Black 35w 440 FM Xcvr w/TTP mic ..		259.99

Alinco - continued **AES Price**

EDC-37	13.8v power cable; ignition on/off ..		7.99
EDC-43	Cig lighter cable; ignition on/off ...		10.99
EJ-40U	Digital board; DR-135T/TP/235T/435T ..		119.99
EJ-41U	1200/9600 TNC unit; 135/235/435T ..		139.99
MB-130	Extra mobile bracket		19.99
HK-130	Hardware kit for MB-130		4.99
PC-15B	Extra DC cable		10.99
DR-135TP	Black 50w 2m FM/TT/1200/9600 TNC ...		269.99
EDC-37	13.8v power cable; ignition on/off ..		7.99
EDC-43	Cig lighter cable; ignition on/off ...		10.99
MB-130	Extra mobile bracket		19.99
HK-130	Hardware kit for MB-130		4.99
PC-15B	Extra DC cable		10.99
CC-150	Cloning cable for DR-150TQ	D	4.99
EJ-19U	Memory expansion unit; DR-430TQ Δ ..		6.99
DR-605TQ	50/35w 2m/440 FM/TT/EJ24U tone sq ..		339.99
EMS-14	Desk top microphone		114.99
EDS-8	Adapter for EMS-14 w/DR-605TQ		28.99
MB-130	Extra mobile bracket		19.99
HK-130	Hardware kit for MB-130		4.99
PC-15B	Extra DC cable		10.99
EDS-1	Junc box w/ext spkr, mic jacks; 610TQ Δ ..		39.99
EDS-2	9' extension cable; EDS-1/610TQ Δ ..		23.99
EJ-23U	200 channel memory unit; 610TQ Δ ..		29.99
MB-570	Mobile bracket; DR-570/590/600T D ..		9.99
DX-70TH	Comp HF Xcvr/100w 6m/mob bkt ..		749.99
DM-330MVT	30A switching ps/meter/32A surge ..		179.99
DM-340MVT	30A ps w/meters/35A surge Δ ..		169.99
EBC-8	Front control head bracket		15.99
EBC-9	Extra mobile bracket		32.99
EDS-4	Rem mt acc kit w/5' cable, 2 covers ..		41.99
EDS-5	15' microphone extension cable		36.99
EDS-6	15' remote cable		68.99
EDX-2	160-10m 200w auto wire ant tuner ..		319.99
EMS-14	Desk top microphone		114.99
PC-25	Extra DC cable		35.99
DX-77T	160-10m HF Xcvr		699.99
DM-330MVT	30A switching ps/meter/32A surge ..		179.99
DM-340MVT	30A ps w/meters/35A surge Δ ..		169.99
EDS-5	5' microphone extension cable		36.99
EDX-2	160-10m 200w auto wire ant tuner ..		319.99
EMS-14	Desk top microphone		114.99
ERW-4C	PC cable		39.99
PC-25	Extra DC cable		35.99

ALPHA DELTA (ALP)

R-T/N 200w 1 GHz type N protector	D	\$ 9.99
Extra arc-plug cartridge; R-T/N	D	6.99
Extra arc-plug cartridge for LT or LT/N	D	.99
RT-N/2G 200w 1 GHz type N protector	D	9.99
Extra arc-plug cartridge for HV-N/2G	D	2.99
ATT-3G50 200w 3GHz type N surge protector		59.99
ATT-3G50-HP 2kw 3GHz type N surge protector		59.99
ATT-3G50U 200w 500MHz surge protector		49.99
ATT-3G50U-HP 2kw 500MHz surge protector ...		49.99
ATT/3G50 Extra 200w arc-plug cartridge ...		14.99
ATT-HP/3G50HP Extra 2kw arc-plug cart ...		14.99
Delta-2 500 MHz 2-pos coax switch/protector		49.99
Delta-2/N 1.3 GHz 2-pos type N switch/protector		64.99
Delta-4 500 MHz 4-pos coax switch/protector		79.99
Delta-4/N 1.3 GHz 4-pos type N switch/protector		89.99
D-4 Extra arc-plug; Delta-2/2N/4/4N		9.99
Delta-4C 4-pos coax switch/protector console		139.99
Delta-4CN 4-pos N coax switch/protector console		149.99
D-4 Extra arc-plug; Delta-4C/4CN		9.99
Delta-C Kit w/crt ins/2 end ins/static protect		29.99
SEP Extra arc-plug cart; DX-Ultra/Delta-C		15.99
Delta-CIN Antenna end insulator	each	1.99
DX-80 80m 134' complete dipole antenna		49.99
DX-40 40m 67' complete dipole antenna		39.99
DX-20 20m 34' complete dipole antenna		39.99

Alpha Delta - continued AES Price

DX-A 160-80-40m twin sloper antenna	59.99
DX-B 160-80-40-30m 60' sloper ant	69.99
DX-CC 80-10m 5-band 82' no trap, no tuner dipole	119.99
DX-DD 80/40m 82' Delta Dipole antenna	89.99
DX-EE 40-10m 4-band 40' no trap, no tuner dipole	99.99
DX-LB 160-80-40m 100' shortened dipole ...	119.99
DX-LB Plus 160/80/40/20/15/10m 100' short dip	149.99
DX-SWL AM broadcast-13m 60' SWL sloper ant	79.99
DX-Ultra AM broadcast-30MHz 80' SWL dipole	119.99
SEP Extra arc-plug cart; DX-Ultra/Delta-C	15.99
Pathfinder 1.8-30MHz+6m dig auto ant tuner	399.99
Outpost Base tripod mtg sys for mobile ant ..	199.99
SK-1 Straight Kent key	129.99
SP-1 Single paddle Kent key	139.99
TP-1 Twin paddle iambic Kent key	149.99

Also See Technology Amateur Radio video & book 39.99

Basic see OUTBACKER

AMECO PUBLICATIONS (AME)

4-01 Code Course Instruction Booklet	\$ 2.99
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CODE COURSES - CASSETTE TAPES

100-T Junior code tape, 0-7½ wpm	\$ 5.95
107-PC-2 IBM Morse Code Course, version 2.0	29.95

CODE PRACTICE OSCILLATORS & CODE KEYS

K-1 Bakelite type key	\$ 10.95
K-4 Brass type key	16.95
OCM-2K Code oscillator & CW monitor kit	19.99
OCM-2W Wired oscillator & CW monitor	24.99

PREAMPLIFIERS

TPA HF receive preamp & indoor active ant ..	\$ 76.99
P-9T Power supply for TPA	9.99
PT-3 2-54 MHz transceiver preamp	124.99
P-12T Power supply for PT-3	9.99

FILTERS

HP-75T 75 ohm high-pass filter	\$ 12.99
HP-300T 300 ohm high-pass filter	12.99

AMERITRON (AMR)

AL-80B 1kw PEP out linear (3-500Z)	1199.99
AL-82 1.5kw PEP out linear (2 3-500Zs)	2099.99
AL-572 1.3kw PEP out linear (4 572Bs)	1299.99
AL-800 1250w PEP out linear (3CX800A7)	1629.99
AL-800H 1.5kw PEP out amp (2 3CX800A7) ..	2399.99
AL-811 600w PEP out linear (3 811As)	599.99
AL-811H 800w PEP out linear (4 811As)	749.99
AL-1200 1.5kw PEP out linear (3CX-1200A7) ..	2199.99
AL-1500 1.5kw out linear (8877)	2599.99
ALS-500M 600w PEP out solid state mob amp ..	699.99
ALS-600 700w PEP out solid state amp w/ps ..	1129.99
ARB-7021 Amplifier Xcvt interface; lcom	39.99
ARB-70212 Amp Xcv interface; lco 706&MKII/G D ..	39.99
ARB-702K Amplifier Xcvt interface; Kenwood D ..	39.99
ARB-704 Amplifier Xcvt interface buffer	49.99
ARB-70412 Amp Xcvt interface; IC706 series ..	49.99
ATP-100 Amplifier tuning pulser	49.99
ATP-102 Deluxe amplifier tuning pulser	59.99
ATR-20 1.2kw PEP antenna tuner	419.99
ATR-30 3kw PEP antenna tuner	549.99
ADL-1500 1.5kw dummy load with oil	69.99
ADL-2500 2.5kw dummy load with fan	189.99
ICP-120 120v inrush protector	79.99
ICP-240 240v inrush protector	79.99
AWM-30 3kw PEP SWR/wattmeter/rem sens ..	139.99
QSK-5 Stand alone T/R switch	329.99
QSK-5PC PC board kit; T/R switch	229.99
CF-5 Cooling fan for QSK-5	39.99
RCS-4 4-pos wireless remote coax switch	129.99
RCS-8V 160-2m 5-pos remote coax switch ...	139.99
RCS-8VN 160-2m 5-pos N rem coax switch ..	149.99

Note: RCS-8V/VN require 8-wire control cable.

AES Price

Antenna Specialists (ASP)

AP-143 2m 23" on glass cell look-alike ant ..	\$ 69.99
APR151.3 2m 3db 33" on glass antenna	69.99
KAV-382 On glass replacement mtg kit	12.99
ASC-3AD Heavy duty chrome spring	9.99
MONR51 H/L/U magnet mt monitor ant	29.99
MR431 Hatch/trunk groove mt CB ant	9.99

Antenna Supermarket (ANT)

Eavesdropper* 60-11m trap dipole SWL ant ..	\$ 89.99
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*Specify SO-239 or twin-lead

ANTENNA WORLD (ANW)

COM136-4500NP VHF/UHF port dipole/BNC ..	\$ 19.99
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ARROW Antenna (ARA)

146/437-10 3 el 2m/7 el 440 handheld beam ..	\$ 73.99
146/437-10BP 3el 2m/7el 440 HH split bm beam ..	79.99
10w duplexer (installs in boom)	59.99

ARTSCI (ART)

Amateur Handbook (Hambook)	\$ 14.95
Lost Users Manuals	19.95
US Repeater Mapbook 2000/2001 edition	9.99

ASTATIC (AST)

Silver Eagle Final Edition amp desk mic	D \$199.99
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ASTRON (ASR)

RS-4L 3A ps, 4A surge, w/cig lighter socket ..	\$ 49.99
RS-7A 5A power supply, 7A surge	59.99
RS-10A 7.5A power supply, 10A surge	69.99
RS-12A 9A power supply, 12A surge	79.99
RS-12S 9A ps, 12A surge, w/speaker	89.99
RS-20A 16A power supply, 20A surge	99.99
RS-35A 25A power supply, 35A surge	149.99
RS-35A/220V 220v 25A ps, 35A surge	169.99
RS-50A 37A power supply, 50A surge	219.99
RS-70A 57A power supply, 70A surge	259.99
RS-20M 16A ps w/meters, 20A surge	119.99
RS-35M 25A ps w/meters, 35A surge	169.99
RS-50M 37A ps w/meters, 50A surge	239.99
RS-70M 57A ps w/meters, 70A surge	289.99
VS-20ML Variable 16A ps/meters, 20A surge ..	139.99
VS-35M Variable 25A ps/meters, 35A surge ..	189.99
VS-50M Variable 37A ps/meters, 50A surge ..	259.99
RM-35M 25A rack mt ps/meters, 35A surge ..	249.99
RM-50M 37A rack mt ps/meters, 50A surge ..	279.99
RM-60M 50A rack mt ps/meters, 55A surge ..	359.99
SS-25 20A switching ps, 25A surge	109.99
SS-25M 20A switching ps/meters, 25A surge ..	129.99
SS-30 25A switching ps, 30A surge	119.99
SS-30M 25A switching ps/meters, 30A surge ..	139.99
12/115 200w solid state 12vdc-115vac inverter ..	69.99
N2412-12 9A 22-32vdc to 13.8vdc converter ..	49.99
N2412-24 16A 22-32vdc to 13.8vdc converter ..	79.99

BMI (BMI)

972A 12" 12-hour wall clock	\$ 19.99
972AD 14" 12/24-hour wall clock	32.99
973A 12" 24-hour wall clock	49.99

B & W (B&W)

AP-10A 51" portable 40/20/15/10/6/2m ant ..	\$ 89.99
AT-55 40/20/15/10m 55' trap dipole ant	99.99
AT-110 80/40/20/15/10m 110' trap dipole ...	99.99
AS-160 160/80/40/20m 137' trap dipole	154.99
AS-80 80/40/20m 78' trap dipole antenna ...	119.99
AS-40 40/20/15/10m 40' trap dipole ant	154.99
AS-20 20/15/10m 20' trap dipole antenna ...	119.99
AC-1.8-30 Continuous 1.8-30 MHz vee ant ...	209.99
ACS-1.8-30 Continuous 1.8-30MHz stainless vee ..	329.99

B & W - continued

AES Price

AC-5-30 Continuous 5-30 MHz 65' antenna ..	199.99
ACS-5-30 Continuous 5-30 Mhz 65' stainless ant ..	319.99
ASW-90 500KHz - 30MHz 90' receive only ant D ..	119.99
AXS-160 160/30m 96' trap dipole antenna ..	99.99
AXS-80 80/40/15m 65' trap dipole antenna ..	119.99
BWD-1.8-30 1.8-30 MHz 90' folded dipole ...	199.99
BWDS-1.8-30 1.8-30 stainless 90' folded dip ..	319.99

BELDEN (BEL)

52 OHM COAXIAL CABLE

8216 RG-174 (sub-miniature)	per ft. \$.30
8216	100 ft. Roll 28.99
8216	500 ft. Roll 104.99
8216	1000 ft. Roll 199.99
9201 RG-58 (solid center)	per ft. .24
9201	100 ft. cut 22.99
9201	500 ft. Roll 94.99
9201	1000 ft. Roll 169.99
8240 RG-58U (solid center)	per ft. .30
8240	100 ft. Roll 28.99
8240	500 ft. Roll 104.99
8240	1000 ft. Roll 199.99
8259 RG-58AU (stranded center)	per ft. .33
8259	100 ft. Roll 30.99
8259	500 ft. Roll 104.99
8259	1000 ft. Roll 199.99
8219 RG-58AU (stranded, foam)	per ft. .34
8219	100 ft. Roll 31.99
8219	500 ft. Roll 104.99
8219	1000 ft. Roll 199.99
8262 RG-58CU (non-contaminating) ...	per ft. .41
8262	100 ft. cut 37.99
8262	500 ft. Roll 139.99
8262	1000 ft. Roll 259.99
9258 RG-8X (stranded, foam)	per ft. .39
9258	100 ft. cut 34.99
9258	500 ft. Roll 129.99
9258	1000 ft. Roll 239.99
8237 RG-8U	per ft. .64
8237	100 ft. Roll 59.99
8237	500 ft. Roll 249.99
8214 RG-8U (foam)	per ft. .59
8214	100 ft. Roll 54.99
8214	500 ft. Roll 259.99
8214	1000 ft. Roll 489.99
9913 RG-8U (low loss)	100 ft. Roll 59.99
9913	250 ft. Roll 129.99
9913	500 ft. Roll 239.99
9913F7 RG-8U (low loss, flexible)	per ft. .87
9913F7	100 ft. Roll 79.99
9913F7	250 ft. Roll 159.99
9913F7	500 ft. Roll 299.99
9251 RG-8A (non-contaminating)	per ft. .99
9251	100 ft. Roll 94.99
9251	500 ft. Roll 359.99
8267 RG-213 (non-contaminating) ...	per ft. .87
8267	100 ft. cut 79.99
8267	500 ft. Roll 349.99

75 OHM COAXIAL CABLE

8241 RG-59U (75 ohm, solid center) ...	per ft. \$.33
8241	100 ft. Roll 29.99
8241	500 ft. Roll 94.99
8241	1000 ft. Roll 179.99
8238 RG-11 (75 ohm, stranded center) per ft. ..	.94
8238	100 ft. cut 89.99
8238	500 ft. Roll 329.99
8213 RG-11 (75 ohm, solid, foam)	per ft. .84
8213	100 ft. cut 74.99

Belden - continued **AES Price**

8213	500 ft. Roll	279.99
ROTOR CABLE		
8484	4-wire; 4-20 gauge	per ft. \$.29
8484	100 ft. cut	25.99
8484	500 ft. Roll	94.99
8484	1000 ft. Roll	179.99
8448	8-wire; 2-18, 6-22 gauge	per ft. .34
8448	100 ft. cut	29.99
8448	500 ft. Roll	129.99
8448	1000 ft. Roll	249.99
9405	8-wire; 2-16, 6-18 gauge	per ft. .74
9405	100 ft. cut	69.99
9405	500 ft. Roll	319.99
9405	1000 ft. Roll	599.99

ANTENNA WIRE

8000	No. 14 stranded ant wire	per ft. \$.24
8000	100 ft. Roll	20.99
8000	1000 ft. Roll	179.99

No. 8 ALUMINUM GROUND WIRE

8018	Multiples of 50 ft.	each \$ 14.99
8018	500 ft. Roll	99.99

Note: All above roll pricing is for rolls as shown only; all other lengths, even if more than roll length shown or a multiple of roll length shown, are sold at the per ft. price.

FOAM COAX w/PL-259s ON BOTH ENDS

9349	3' RG-58AU foam	\$ 16.99
9352	50' RG-58AU foam	28.99
9354	50' RG-8U foam	52.99
9355	75' RG-8U foam	74.99
9356	100' RG-8U foam	89.99

BELMERIT (BLM)

DM-80	Credit card size multimeter w/case	\$ 34.99
DX-405	10 func/39 range+20MHz freq multimeter	69.99

BENCHER (BEN)

BY-1	Iambic keyer paddle w/black base	\$ 99.99
BY-2	Iambic keyer paddle w/chrome base	119.99
BY-3	Iambic keyer paddle, gold plated	279.99
BY-4	Iambic paddle/blk base/gold components	169.99
170-82	Merc paddle...drop ship; mfrgr will engrave call	449.99
ST-1	Single lever keyer paddle, black base	99.99
ST-2	Sgl lever kyr paddle, chrome base	119.99
RJ-1	Dlx hand key w/navy knob/black base	95.99
RJ-2	Dlx hand key w/navy knob/chrome base	120.99
XW-1	Low voltage DC fuse panel	14.99
XW-20	Fuse kit	1.99
XW-39/XW-30	Crimp terminal kit	1.49
XW-40	Screw terminal kit	1.99
YA-1	1kw low pass filter	75.99
ZA-1A	3.5-30 MHz 1:1 balun	39.99
HWK	Hardware kit; ZA-1A for 2" boom	6.99

Bounty Hunter (BOU)

Fast Tracker	Metal detector/2-tone target ID	\$ 99.99
Tracker IV	Metal detector/3-mode	129.99
Quick Draw II	Metal detector/full motion	224.99
Sharp Shooter II	Metal detector/LCD readout	279.99
Land Star	Metal detector/3-tone audio discrim	349.99
Land Ranger	Metal detector/programmable	449.99
Time Ranger	Metal detector/top-of-the-line	549.99
Carry Bag	For Bounty Hunter metal detectors	29.99
10" Coil	10" magnum coil; adds depth	59.99

BUCKMASTER (BUC)

HamCall	CD-ROM ham listings	\$ 50.99
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BUSHNELL (BUS)

13-0430	4x30 LiteVision compact binoculars	\$ 18.99
13-0721	7x21 compact Falcon binoculars	29.99

Bushnell - continued **AES Price**

13-1226	12x25 camo FRP compact binocs	29.99
13-1250	12x50 wide angle Powerview binocs	59.99
13-2514	8x21 black compact binoculars	24.99
13-3410	7x35 Falcon binoculars	29.99
17-7351	7x35 wide angle armored binoculars	39.99
20-0600	Compact laser rangefinder 600	229.99
26-3652	3.6x52 night scope w/illuminator	199.99
78-0040	90mm refractor telescope	439.99
78-0103	1.25" erecting prism	69.99
78-0200	4.5" reflector telescope	269.99
78-2010	4.5" reflector telescope	139.99
78-8000	8" Dobsonian reflector telescope	399.99
78-9440	60mm refractor telescope	89.99
78-9470	60mm refractor telescope w/zoom	129.99
78-9675	4.5" reflector telescope	229.99
78-0101	1.25" 9mm Kellner eyep; 0040/6000/8000	29.99
78-0102	1.25" 25mm Kellner eyepiece	29.99
78-0105	1.25" 2x Barlow lens; 0040/0200/6000/8000	39.99
78-0106	DC/batt clock drive; 0040/0200/9675	89.99

BUTTERNUT (BUT)

Skyhawk 3X10 Triband 10 el, 24' beam w/bauln * \$999.99

*This item is drop-shipped (shipped direct to you from the Butternut factory). On factory drop-shipsments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Wood Dale, Illinois via UPS, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. Please allow sufficient time for delivery on this special order item.

HF-6VX	80/40/30/20/15/10m 26' vert ant	329.99
HF-9VX	80/40/30/20/17/15/12/10/6m 26' vert	389.99
A17-12	17 & 12m kit for HF-6VX	60.99
CPK	Counterpoise kit	129.99
MPS	Mounting post sleeve	12.99
RMK-II	Roof mounting kit w/radials	169.99
STR-II	Radial kit only	124.99
TBR-160S	160m resonator	129.99
HF-2V	80/40m 32' vertical	249.99
30-MRK	30m resonator for HF-2V	110.99
TBR-160S	160m resonator	129.99
10/11	10/11m butterfly beam	149.99
P-5	1:1 balun	14.99
T-2	2' tripod tower	14.99

CQ (CQX)

Building and Using Baluns and Ununs	\$ 19.99
Lew McCoy on Antennas	15.99
Quad Antenna Book	15.99
Shortwave Propagation Handbook	19.99
W6SAI HF Antenna Handbook	19.99

CSS (CSS)

Log Windows	Logging program	\$ 69.99
Pacterm 98	CSS Software; Kantronics TNCs	79.99
PK-Term 99	Terminal prog; PK-12/96/232	79.99

CABLE X-PERTS (CAB)

CXP1318FX	CXP1318FX (low loss, flexible) per ft.	\$.59
CXP1318FX	500 ft. Roll	269.99
CXP1318FC-50	50' CXP1318FX/silver teflon PL259s	43.99
CXP1318FC-75	75' CXP1318FX/silver teflon PL259s	60.99
CXP1318FC-100	100' CXP1318FX/silver teflon PL259s	76.99
CXP1318FC-150	150' CXP1318FX/silver teflon PL259s	109.99
CXP1318FN-75	75' CXP1318FX/type N males	73.99
CXP1318FN-100	100' CXP1318FX/type N males	88.99
CXP1318FN-125	125' CXP1318FX/type N males	104.99
CXP008C-3	3' RG8 foam/silver teflon PL259s	11.99
CXP008C-6	6' RG8 foam/silver teflon PL259s	13.99
CXP008C-25	25' RG8 foam/silver teflon PL259s	20.99
CXP008C-50	50' RG8 foam/silver teflon PL259s	27.99

Cbl Xperts - continued **AES Price**

CXP008C-75	75' RG8 foam/silver teflon PL259s	38.99
CXP008C-100	100' RG8 foam/silver teflon PL259s	49.99
CXP008C-125	125' RG8 foam/silver teflon PL259s	60.99
CXP213C-6	6' RG213/silver teflon PL259s	13.99
CXP213C-15	15' RG213/silver teflon PL259s	20.99
CXP213C-25	25' RG213/silver teflon PL259s	22.99
CXP213C-50	50' RG213/silver teflon PL259s	33.99
CXP213C-75	75' RG213/silver teflon PL259s	44.99
CXP213C-100	100' RG213/silver teflon PL259s	55.99
CXP08XCC-3	3' RG8X clear/silver teflon PL259s	10.99
CXP08XC-25	25' RG8X/silver teflon PL259s	16.99
CXP08XC-50	50' RG8X/silver teflon PL259s	22.99
CXP08XC-75	75' RG8X/silver teflon PL259s	25.99
CXP08XC-100	100' RG8X/silver teflon PL259s	29.99
CXP058ARBS-3	3' RG58/BNC male- SO-239	15.99
CXP142SBJ-3	3' RG142/SMA male - BNC female	20.99
CXP08XCB-3	3' RG8X/male BNCs	12.99
CXP08XCB-6	6' RG8X/male BNCs	13.99
CXP522-6	6' keyer hook-up cable w/S-267 plug	19.99
235	1" tinned copper ground braid	per ft. .99
235	100 ft. Roll	92.99
2332	1/2" tinned copper ground braid	per ft. .59
2332	100 ft. Roll	52.99

CASTLE RIDGE (CRO)**SOLID BASE COPPERWELD ANTENNA WIRE**

AN-122	100 feet No. 12	\$ 26.99
AN-123	150 feet No. 12	36.99
AN-124	250 feet No. 12	52.99
AN-126	500 feet No. 12	94.99
AN-128	1000 feet No. 12	159.99
AN-142	100 feet No. 14	21.99
AN-143	150 feet No. 14	26.99
AN-144	250 feet No. 14	36.99
AN-146	500 feet No. 14	64.99
AN-148	1000 feet No. 14	109.99
AN-181	250 feet No. 18	15.99
AN-182	500 feet No. 18	26.99

CELESTRON (CEL)

4020	40x dissecting microscope	\$ 79.99
4030	40-500x educational microscope	119.99
4050	40/100/400x biological microscope	199.99
11011	Nexstar 8 telescope	1499.99
11015	Celestar 8 telescope	1099.99
94162	Solar filter for Nexstar 8/Celestar 8	79.99
11032	Nexstar 5 telescope w/tripod	1149.99
93593	Deluxe tripod for 11032/Nexstar 5	199.99
11051	G-5 w/motor drive telescope	749.99
11052	Nexstar 8 GPS telescope	2499.99
11053	Nexstar 11 GPS telescope	2999.99
21072	Firstscope 80 EQ-WA refractor telescope	249.99
94135	Solar filter for Firstscope 80EQ-WA	34.99
22062	Nexstar 60GT telescope	249.99
22082	Nexstar 80GT telescope	349.99
302160	Soft case for Nexstar 60/80	79.99
94135	Solar filter for Nexstar 60GT/80GT	34.99
31034	Tabletop 76 reflector telescope	99.99
31044	Firstscope 114 4.5" reflector telescope	249.99
31056	C150-HD reflector telescope	399.99
31058	G-8N 8" Newtonian reflector telescope	449.99
31142	Nexstar 114GT telescope	439.99
50025	30mm mini spotting scope w/tripod	59.99
52200	60mm pro zoom spotting scope	199.99
52211	60mm wildlife zoom spotting scope/tripod	169.99

LENSES (not for 31034)

93213	1.25" 2x economy Barlow lens	D \$ 9.99
93308	1.25" 6mm ocular Plossl lens	49.99
93310	1.25" 10mm ocular Plossl lens	49.99
93312	1.25" 17mm ocular Plossl lens	49.99

Celestron - continued AES Price

93507 1.25" 2x deluxe Barlow lens	59.99
51630 Star pointer finderscope	30.99
93590 Red Astro Lite flashlight	5.99
93700 CD-ROM "The Sky for Celestron"	29.99
93720-40 Planisphere & planet finder	9.99
93722 Sky Map	19.99
94118-S1 1.25" eyepc filt set; 21/80A/ND-13/polar	69.99
94119-A 1.25" moon filter	16.99
94126-A Model A LPR filter; for 1 1/4" eyepieces	69.99
94301 Starter kit	79.99
94302 Observation kit	199.99

Sorry, no exports on Celestron products.

CENTAUR (CEN)

B11W10-50 1:1 3kw PEP balun for dipole	\$ 54.99
B11Y10-50 1:1 3kw PEP balun for yagi	54.99
B4Y10-50 4:1 3kw PEP balun for yagi	69.99
B41LW10-50 4:1 ladder line to coax balun ...	69.99

Channel Master (CHA)

9521A Prog light duty rotor/IR rem cont/3-wire	\$ 99.99
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CLOCKS

BMI 972A 12" 12-hour wall clock	Δ \$ 19.99
BMI 972AD 14" 12/24-hour wall clock	32.99
BMI 973A 12" 24-hour wall clock	49.99
MFJ 105C 24-hour quartz wall clock	19.99
MFJ 107B 24-hour digital clock	9.99
MFJ 108B 24/12-hour dual disp digital clock	19.99
MFJ 112B Deluxe world map clock	24.99
MFJ 113 24/12-hr 1.8" LED clock/batt back-up	19.99
MFJ 114B Giant LED desk/wall 12/24-hr clock D	44.99
MFJ 115 DX'er 24-hr analog world wall clock	24.99
MFJ 116DC 12-hour 12vdc LED clock	Δ 9.99
MFJ 118 Giant 24/12 hour LCD clock	24.99
MFJ 119B Giant 24/12 hour LCD/in temp clock D	24.99
MFJ 123 Eternity solar atomic clock	79.99
MFJ 125 Calendar 24-hour analog wall clock	29.99
MFJ 126 Multi-color 12-hr quartz wall/24-hr trim Δ	19.99
MFJ 128 12/24 hr analog atomic wall clock	D 59.99
MFJ 132AT 12-hour LCD see-thru clock	Δ 14.99
MFJ 134AT 24-hour LCD see-thru clock	Δ 14.99
MFJ 152B Thermo clock; in/out temp/12/24-hr	24.99
ORE BA-812E The weather clock	D 19.99
ORE JMR-828 Jumbo atomic clock w/rem temp	69.99
ORE RM-116E Exactset radio controlled clock	39.99

COAX SEAL (UNV)

104 1/2" x 60" coax seal	\$ 3.99
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Coaxial Dynamics (COA)

81000-A Wattmeter w/SO-239s	\$260.99
83000-A Peak reading wattmeter w/SO-239s	393.99
82004 50w 2-30MHz element	87.99
82005 100w 2-30MHz element	87.99
82006 250w 2-30MHz element	87.99
82007 500w 2-30MHz element	87.99
82008 1000w 2-30MHz element	87.99
82009 2500w 2-30MHz element	125.99
82010 5000w 2-30MHz element	125.99
82013 10w 25-60MHz element	71.99
82014 25w 25-60MHz element	71.99
82015 50w 25-60MHz element	71.99
82016 100w 25-60MHz element	71.99
82029 10w 100-250MHz element	71.99
82031 50w 100-250MHz element	71.99
82033 250w 100-250MHz element	71.99
82046 10w 400-1000MHz element	71.99
82048 50w 400-1000MHz element	71.99
82049 100w 400-1000MHz element	71.99
88000 N female quick match connector each	9.99
88800 Carrying case for meter	55.99

AES Price

COBRA (COB)

10 Ultra AT AM Mobile CB/magnet mt ant ..D	\$ 34.99
18WX ST Sound Tracker AM Mobile CB w/WX D	69.99
25NW ST Night Watch Sound Tracker AM Mob CB D	79.99
29NW ST Night Watch Sound Tracker AM Mob CB D	99.99
HH-36 ST Sound Tracker handheld CB	D 39.99
19DX III AM Mobile CB	49.99
19LTD II AM Mobile CB	54.99
21LTD ST Sound Tracker AM Mobile CB	74.99
25LTD (25LTD Classic) AM Mobile CB	89.99
25WXNW ST Night Watch Sound Tracker AM Mob CB/WX	109.99
29LTD (29LTD Classic) AM Mobile CB	99.99
29NW Night Watch AM Mobile CB	119.99
29WXNW ST* Night Watch Sound Tracker AM Mob CB/WX	129.99

*\$15 consumer rebate from Cobra thru 6/29/02

75WX ST Sound Tracker AM Mobile CB w/WX	99.99
HH-37 ST Sound Tracker handheld CB	59.99
HH-38WX ST Sound Tracker handheld CB w/WX	79.99
148NW ST* Night Watch Sound Tracker SB/AM Mob CB	179.99

*\$30 consumer rebate from Cobra thru 6/29/02

AT-60 Trunk lip/roof mt CB antenna	D 10.99
CA-77 Noise canx/amplified mobile mic	D 16.99
HGA-1000 Magnet mt CB antenna	24.99
HGM-77 Noise canx/amplified mobile mic	27.99
CP-912 900MHz dig sp spec cordless ph ...D	29.99
FRS-200 Family radio service handheld	D 29.99

COMET (CMT)

MOBILE ANTENNAS

B-10 2m/440 2.15db 12" cell look-alike ant	\$ 39.99
B-10NMO 2m/440 2.15db 12" cell look-alike NMO	39.99
B-20 2m/440 2.15/5db 30" cell look-alike ant D	49.99
B-20NMO 2m/440 2.15db/5db 30" cell look NMO D	49.99
C-757 2m/440 2.15/5.5db 38" foldover ant	54.99
C-757NMO 2m/440 2.15/5.5db 38" foldover NMO	54.99
C-767 2m/440 3.5/6db 40" foldover ant	59.99
C-767NMO 2m/440 3.5/6db 40" foldover NMO	59.99
CA-2X4SR 2m/440 3.8/6.2db 40" mob ant ...	64.99
HA-050 6m 33" 1/4 wave mobile antenna	72.99
HP-32 2m/440 3/5.5db 34" 350/250w ant ...	89.99
M-24B 2m/440 1.7/4.1db mag mt ant w/BNC	39.99
M-24M 2m/440 1.7/4.1db mag ant w/PL259	39.99
SBB-1 2m/440 1.5/2.15db 16" flex mobile ...	39.99
SBB-1NMO 2m/440 1.5/2.15db 16" flex NMO	39.99
SBB-2 2m/440 2.15/3.8db 18" black mobile	39.99
SBB-2NMO 2m/440 2.15/3.8db 18" blk NMO	39.99
SBB-5 2m/440 3/5.5db 38" black mobile ant	54.99
SBB-5NMO 2m/440 3/5.5db 38" black NMO ..	54.99
SBB-7 2m/440 4.5/7.2db 4" 7" black mob ant	74.99
SBB-7NMO 2m/440 4.5/7.2db 4" 7" blk NMO.	74.99
SB-14 6m/2m/440 4.3" chrome mobile ant ...	64.99
SB-15 6m/2m/440 2.15/4.5/7.2db 5" chr mob	79.99
SBB-25 2m 4.1db black mobile antenna	44.99
SBB-25NMO 2m 4.1db black NMO mob ant ..	44.99
SB-97 2m/440/1.2 3/6.8/9.6db 39" type N ...	79.99
SB-123 1.2GHz 7.2db 24" type N mobile ant	49.99
SBB-224 2m/220/440 2.15/3.2/5.5 blk mob ..	74.99
SBB-224NMO 2m/220/440 2.15/3.2/5.5 blk NMO	74.99
SF-245 2.4 GHz 7db 18" fg type N ant	69.99
UHV-6 40/15/10/6/2m/440 7" 2" mobile ant	149.99
L-3.5 80m loading coil for UHV-6	34.99
L-14 20m loading coil for UHV-6/CA-HV	29.99
L-18 17m loading coil for UHV-6/CA-HV	29.99
Z-750 2m/440 2.1/5.5db 39" theft resistant D	59.99
Z-780 2m/440 4.5/7.2db 5" theft resistant D	79.99

MOBILE MOUNTS

3D4M Mobile mt, 13' coax w/UHF connectors	\$ 24.99
3D4N Mobile mt, 13' coax w/type N	28.99
3D5M Mobile mt, 16.5' coax w/UHF connectors	27.99
5D4N Roof mount, 13' coax w/type N	31.99
AD-10N NMO mount to female N adapter	17.99

Comet - continued AES Price

AD-15M NMO mount to SO-239 adapter	17.99
AD-25M SO-239 to NMO mount adapter	14.99
CK-3M Dlx 2-step 10' cable w/UHF connectors	33.99
CK-3M5 Dlx 2-step 16.5' cable w/UHF connects	39.99
CK-5N Dlx 13' cable assembly w/type N	47.99
CM-5M Hvy duty mag mt, coax, max 4' ant	24.99
CQ-5M Dlx black QD trunk lip mt w/17' coax	66.99
CQ-5N Dlx black QD tnk lip mt/17' coax/N	69.99
CP-5M Hvy duty UHF mt (RS-730) w/16.75' coax	66.99
CR-5M Std coax assy, 16.5' coax, UHF conn	19.99
CT-5M Trunk lip mount w/16.5' coax	39.99
GR-5M Dlx tnk lip mt w/ coax; matches SB ...	67.99
GR-5N Dlx N tnk lip mt w/ coax; matches SB	69.99
RS-9 Trunk lip mount, no coax	11.99
RS-520 Mini heavy duty trunk/hatch mount	28.99
RS-560C Luggage rack mount, no coax	35.99
RS-720 Hatch/rear door/tnk multi-adj mt	28.99
RS-720NMO Hch/rear door/tnk multi-adj NMO mt	28.99
RS-730 HD rear van/SUV door/tnk lip mt, no coax	29.99
WS-1M Window clip mt w/UHF connectors	59.99

BASE STATION ANTENNAS

CA-712EF 440 9db 10' 5" base antenna	\$109.99
CA-ABC22A 2m 6.5db 9' 5" base/rptr ant	69.99
CA-ABC23 2m 7.8 db 13' 4" base/rptr ant	99.99
CA-F72GF 440-470 6db 3' 6" tunable ant	109.99
CA-52HB4 6m 4 el 10.4db 10' 6" boom beam	119.99
CX-333 2m/220/440 6.5/7.8/9db 10.25' ant	179.99
CYA-1216E 1.2GHz 16el 16.6db 4' 5" bm N beam	139.99
CYA-2412 2.4GHz 12el 15.5db 2' 6" bm N beam D	129.99
DS-15 6m/2m/440/900/1.2 discone antenna	99.99
GH-50 6m 2.15db 7' 10" fg base antenna	99.99
GP-3 2m/440 4.5/7.2db 5' 11" base/rptr ant	99.99
GP-6 2m/440 6.5/9db 10' 2" base/rptr ant ..	149.99
GP-9 2m/440 8.5/11.9db 17' 8" base/rptr	179.99
GP-9N 2m/440 8.5/11.9db 17' 8" N base/rptr	179.99
GP-15 6/2m/440 3/6.2/8.6db 7' 11" base	154.99
GP-21/CA-1221S 1.2 14.8db 8" N base/rptr ..	149.99
GP-24 2.4GHz 12.4db 5' 11" N base/rptr	199.99
GP-24S 2.4GHz 9.9db 3' 7" N base/rptr	139.99
GP-98 2m/440/1.2 6.5/9/13.5db 9' 8" N ant	189.99
KP-20 900 MHz 9.2db 7' 4" type N base/rptr	112.99
PYA-913 900MHz 13el 15.8db 4' 8" type N beam	159.99

DUPLEXERS AND TRIPLEXERS

CF-142 1.3-150/200-480 600/400w UHF/leads	\$ 69.99
CF-360A 1.3-30/50-470 600w UHF w/leads ..	69.99
CF-360B 1.3-30/50-470 600w UHF/common lead	69.99
CF-416A 2m/440 800/500w UHF w/leads	46.99
CF-416B 2m/440 800/500w UHF/N w/leads ..	46.99
CF-416C 2m/440 800/500w N/UHF/N leads ..	49.99
CF-416W 1.3-250/400-1400 400/200w/leads ...	69.99
CF-530 1.3-90/125-470 600w UHF w/leads ..	69.99
CF-706A 1.3-56/75-470 350w UHF w/leads ..	69.99
CF-41601 2m/440 800/500w UHF/UHF/N, no leads	45.99
CF-41602 2m/440 800/500w SO239, no leads ..	53.99
CF-4160K 2m/440 800/500w all UHF, no leads	45.99
CFX-324A 2m/220/440 600w UHF w/leads ...	88.99
CFX-324B 2m/220/440 600w UHF, no leads ..	85.99
CFX-514 HF/2m/440 800/800/500w UHF w/leads	79.99
CFX-514J HF/2m/440 800/800/500w UHF, no leads	74.99
CFX-514N HF/2m/440 800/800/500w UHF/N w/leads	79.99
CFX-4310C 1.3-150/440/1.2 triplexer, no leads	79.99
CFX-5140 HF/6m/2m/440 800/800/500w UHF, no leads	74.99

HT & HANDHELD SCANNER ANTENNAS

BNC-24 2m/440 17" 2.15/5.3db BNC whip ...	\$ 22.99
CH-32 2m/440 1.75" BNC Miracle Baby ant	29.99
CH-75 2m/440 0/3.2db 14.75" BNC ant	25.99
CHF-412 40/15/2m 28" BNC duck; FT-817 ..D	69.99
CHF-816 80/10/6m 28" BNC duck; FT-817 ..D	79.99
HS-05 18" SMA male - SO-239 adapter/cable	9.99
HT-224 2m/220/440 11" SMA antenna	47.99
SH-55 2m/440 1.5/3.2db 15" BNC ant	33.99

Comet - continued**AES Price**

SH-95 2m/440/1.2 1.5/2.15/5.5db BNC ant	34.99
SMA-3 2m/440 1.2/1.7db 9.75" SMA ant	39.99
SMA-24 2m/440 17" 2.15/5.3db SMA whip	22.99
SMA-501 2m/440/900 1.5" SMA antenna	29.99
SMA-503 2m/440 8.75" SMA antenna	29.99
SMA-703 2m/440/1.2GHz 6.5" SMA ant	31.99

COMM SPEC (COM)

DTD-1 DTMF decoder	D \$ 34.99
ID-8 Automatic morse station identifier	69.99
SS-64 64-tone mini prog CTCSS encoder	28.99
TE-32 32-tone CTCSS prog encoder box	49.99
TS-64DS 64-tone CTCSS prog encoder/decoder	57.99

CONNECTORS**AMPHENOL COAX CONNECTORS (AMP)**

83-1SP-1050 Male coax plug (PL-259)	\$ 1.99
83-1SP Silver plated coax plug (PL-259)	2.99
Van Gorden (VAN) silver plated teflon PL-259	2.99
83-185 Reducer for RG-58 (UG-175)	.99
83-168 Reducer; RG-59/RG-8X (UG-176)	.99
83-1AP Right angle adaptor (UG-646)	6.99
83-1J Double female adaptor (PL-258)	4.99
83-1R Female chassis mt socket (SO-239)	2.99
83-1H Hood; in-line use w/83-1R (UG-106)	3.99
83-1T T-connector adaptor (M-358)	9.99
83-877 Double male adaptor	10.99
83-878 Single hole 1/8" chassis socket	2.99

31-002 BNC male connector for RG-58	4.99
31-012 BNC male connector; RG-59/RG-8X	5.99
31-221 BNC female chassis socket	2.99
82-24 Type N female chassis mt socket	5.99
82-61 Type N male connector for RG-8	7.99
82-64 Type N right angle adaptor	14.99
(VAN) N connector Type N connector for 9913	4.99
82-202-1006 Type N male; 8214/9913/9913F	7.99
82-209 Type N female in-line for RG-8	7.99
34025 Type N male connector for RG-58	6.99

AMPHENOL COAX ADAPTORS (AMP)

2900 SO-239 to BNC male adaptor	\$ 9.99
4400 SO-239 to type N male adaptor	14.99
34125 Type N female - PL-259 adapt	20.99
31-28 BNC female to PL-259 adaptor	14.99
(HOU) SMA-872 SO-239 to SMA plug adaptor	5.99

AIM CONNECTORS, PLUGS & ADAPTORS (AIM)

19-1289 8-pin female mic plug	\$ 4.99
25-7351 Chassis mt SO-239 double female	3.99
25-7365 BNC female to SO-239	3.99
25-7420 BNC male to SO-239	2.99
26-8010 Type N double female	3.99
26-8011 Type N chassis mount	2.99
26-8015 N male to SO-239	4.99
26-8016 BNC female to N male	4.99
26-8017 BNC male to N female	4.99
26-8027 N male for RG-8X	4.99
27-8120 BNC female to PL-259	2.99
27-8130 BNC double male	3.99
27-8140 BNC T; 2 female, 1 male	2.99
27-8142 BNC T, 3 male	.49
27-8450 BNC chassis mt, 4 screw holes	2.99
27-8460 3/8" hole BNC chassis mt	1.99
27-8470 Dual BNC chassis mount	3.99
29-3855 BNC female to SMA male	3.99
29-4140 SO-239 to mini PL-259	2.99

VANCO MICROPHONE CONNECTORS (VCO)

CBC-2P Panel mt 2-pin male	Δ \$ 1.19
CBC-3 3-pin female mic plug	Δ .99
CBC-3P Panel mt 3-pin male	Δ .19
CBC-4 4-pin female mic plug	4.99
CBC-4P Panel mt 4-pin male	Δ .69
CBC-5 5-pin female mic plug	3.99

Connectors - continued AES Price

CBC-5P Panel mt 5-pin male	Δ .19
CBC-6 6-pin female mic plug	4.99
CBC-6P Panel mt 6-pin male	Δ .19
(AIM) 19-1289 8-pin female mic plug	4.99
CBC-8P Panel mt 8-pin male	5.99
P-5D 5-pin DIN plug	Δ .19

KENWOOD DIN PLUGS (KEN)

7-pin DIN plug	\$ 4.99
8-pin DIN plug	6.99
13-pin DIN plug	9.99

VANCO Mic Holders/Mini Plugs/Cig Plugs (VCO)

MH-1 Magnetic mic holder	\$ 1.99
MH-2 Regular mic holder	1.99
P-25 2.5mm sub-miniature phone plug	Δ .09
P-35 3.5mm miniature phone plug	.99
(HOU) AP-115 1/2" metal stereo plug	2.99
(HOU) AP-135 3.5mm stereo mini phone plug	.99
P-12R 2-contact cigarette plug	1.99
P-12V Cig lighter plug w/leads	1.99
P-212 2-outlet cigarette plug adapter	4.99
P-212B Dual cigarette lighter socket adapter	8.99

Connect Systems (CSY)

CS-800 Full duplex patch & repeater controller	\$369.99
CS-900 Simplex interconnect	369.99

CROSS DEVICE (CRS)

STUF Coax connector waterproofing filler	\$ 4.99
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CUSHCRAFT (CUS)

At Cushcraft's request, amateur radio dealers are not authorized warranty depots for Cushcraft Antennas. All warranty issues should be directed to the Technical Support Department/Warranty at Cushcraft (603) 627-7877.

VHF/UHF FM BEAMS* (Vertical polarization)

A148-3S 2m, 3 el wideband beam, 7.8db	\$ 62.99
A148-10S 2m, 10 el wideband beam, 13.2db	99.99
A449-6S 440 MHz, 6 el, 3' boom, 10 db	58.99
A449-11S 440 MHz, 11 el, 4.5' boom, 13 db	79.99

*Antennas can be mounted vertically or horizontally!

2M/440 FM BEAMS* (Vertical polarization)

A270-6S 2m/440, 3/3 el, 2.8' boom, 7.8 db	\$ 79.99
A270-10S 2m/440, 5/5 el, 6.17' boom, 10 db	99.99

*Antennas can be mounted vertically or horizontally!

TRI-BAND 6M/2M/440 BEAMS

A6270-13S 6m/2m/440, 3/5/5el, 8.66'bm, 8/10/10db	\$169.99
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ASL-670 50-450MHz 14el 6.7' boom 6db LP	249.99
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FM RINGOS - 1/2 Wave Verticals

AR-10 10m FM Ringo, 17.6', 3db, 1000w	\$ 79.99
AR-6 6m FM Ringo, 10.1', 3db, 1000w	69.99
AR-2 2m FM Ringo, 3.9', 3db, 1000w	49.99
AR-450 440MHz FM Ringo, 1.4', 3db, 500w	36.99

RINGO RANGERS - FM Verticals

ARX-2 2m FM Ringo Ranger	\$ 59.99
ARX-2B 2m FM Ringo Ranger II, 14', 7db, 1000w	69.99
ARX-220B 220 FM Ringo Ranger II, 9.3', 7db, 500w	69.99
ARX-450B 440FM Ringo Ranger II, 4.9', 7db, 500w	69.99

DUAL-BAND 2M/440 FM RINGOS

AR-270 2m/440MHz FM, 3.75', 3/5.5db, 250w	\$ 94.99
AR-270B 2m/440 MHz FM, 7.7', 5.5/7.5db, 250w	99.99

TWIST, OSCAR BEAMS (Horiz/Vert Polarization)

A148-20T 2m 20el 10.8'bm 11.1db twist	\$139.99
719B 432 19 el 13.5' boom 15.5db	149.99

BOOMER ANTENNAS

124WB 2m Boomer, 4 el, 4' boom, 10.2 db	\$ 89.99
13B2 2m Boomer, 13 el, 15' boom, 15.8 db	139.99
17B2 2m Boomer, 17 el, 31' boom, 18 db	239.99
26B2 2 13B2s vertically stacked	399.99
224WB 220 Boomer, 4 el, 3' boom, 10.2db	74.99

Cushcraft - continued AES Price**BOOMER STACKING KITS***

22N-SK Harness, pwr divider; 2 17B2s	D \$ 99.99
PD-2 Power divider for 2 13B2s	64.99
PD-4 Power divider for 4 13B2s	79.99

*Prices are for stacking kits only

VHF/UHF BEAMS* (Horizontal polarization)

A50-3S 6m, 3 el, 6' boom, 8 db, stainless hdwre	\$114.99
A50-5S 6m, 5 el, 12' boom, 10 db, stainless hdwre	179.99
A50-6S 6m, 6 el, 20' boom, 11db, stainless hdwre	289.99
A148-10S 2m, 10 el wideband beam	99.99
A430-11S 430 MHz, 11 el, 4' boom, 13 db	79.99

*Antennas can be mounted vertically or horizontally!

MOBILE ANTENNAS

CS-28M 10m magnet mt antenna	\$ 64.99
CS-50M 6m magnet mt 3 db antenna	64.99
CS-147M 2m magnet mt 3 db antenna	64.99
CS-147A 2m coil & whip only	46.99
CS-220M 220 magnet mt 3 db antenna	64.99
CS-450M 440 magnet mt 5 db antenna	64.99

DUAL-BAND 2M/440 MOBILE ANTENNAS

CS-270M 2m/440 3.7/6 db magnet mt ant	\$ 84.99
CS-270A 2m/440 coil & whip only	59.99

Mounts ONLY for MOBILE ANTENNAS

CS-MG Magnetic mount	\$ 30.99
CS-MGN Magnetic mount w/N connector	35.99
CS-TL Trunk lip mount	30.99

MULTIBAND HF VERTICAL ANTENNAS

MA-5V 20/17/15/12/10m 14.7' vertical ant	\$199.99
R-600 20/17/15/12/10/6m 19' vertical	319.99
R-8 40/30/20/17/15/12/10/6m 28.5' vert	469.99
R-86K Guy kit for R-8	49.99

ROTATABLE HF DIPOLES

D-3 20/15/10m World Ranger dipole	\$229.99
D-3W 30/17/12m rotatable dipole	229.99
D-4 40/20/15/10m World Ranger dipole	339.99
D-40 40m World Ranger dipole	289.99

BIG THUNDER HF TRI-BAND BEAMS

X-940 40m 1 element add-on kit for X-9	D \$169.99
X-7 20/15/10m, 7 el, 18' boom, 12.5/13db	649.99
X-740 40m add-on kit for X-7	319.99

BIG THUNDER HF MONOBAND BEAMS

XM-240 40m, 2 el, 23' boom, 7 db	\$699.99
TEN-3 10m, 3 el, 8' boom, 8 db	199.99

MULTIBAND HF BEAM ANTENNAS

A-3S 20/15/10m, 3el, 14'bm, 8db, stainless hdwr	\$429.99
A-743 40m or 10 MHz add-on kit; A-3/A-3S	169.99
A-4S 20/15/10m, 4el, 18'bm, 8.9db, stainless hdwre	529.99
A-744 40m or 10 MHz add-on kit; A-4/A-4S	169.99
A-3WS 17 & 12m, 3 el, 14' boom, 8 db	349.99
A-103 30m add-on kit for A-3WS	169.99
ASL-2010 13.5-32MHz 8el 18' bm 6.4db LP	729.99
MA-5B 20/17/15/12/10m 7.3' boom mini beam	269.99

LIGHTNING ARRESTORS

LAC-4 200w SO-239 gas tube arrestor	\$ 40.99
LAC-4H 2kw SO-239 gas tube arrestor	45.99
LAC-4N 200w type N gas tube arrestor	52.99
LAC-4NH 2kw type N gas tube arrestor	56.99
LC-2 Extra 200w cartridge for LAC-4/4N	17.99
LC-2KW Extra 2kw cartridge for LAC-4H/4NH	20.99
5VB Vinyl connector boots	pack of 5 15.99

CUTTING EDGE (CUT)

HI-D1 Radio glove; Ali DJC5T/DJX2T/Yae VX1R	\$ 19.99
HI-5X Radio glove; lco IC-Q7R-2/Yae FT-11	19.99
HI-51 Radio glove; Yaeu VX-5R	19.99
HI-6 Radio glove; ADI PRS2/Al S11A/V5/lco T81/Yae FT50	19.99
HI-61 Radio glove; ADI AT201HP/Yae VX150 Δ	9.99
HMP-II WorldPack II backpack; mini HF Xcvr	67.99
HP-7AF 7AH gel-cell w/2.5 hr fast cgr	D 89.99

Cut Edge - continued AES Price

HP-8AF	8AH gel-cell w/2.5 hr fast cgr	129.99
HPP-7A	7AH gel-cell w/overnight cgr	49.99
HPP-8A	8AH gel-cell w/overnight cgr	73.99
HM-817	WorldPouch; Yaesu FT-817	73.99
PPMDC	Multi-tip/volt reg DC-DC adapt	22.99
PPSCA	Solar cell cigarette adapter	10.99

DCI (DCI)

145-2H	2m 144-146MHz 200w bandpass filter	\$ 89.99
146-4H	2m 144-148MHz 200w bandpass filter	89.99
223.5-3H	222-225MHz 200w bandpass filter	89.99
2m/220 models w/N connectors add \$10 special order		
435-10C	430-440MHz 200w N bandpass filt	109.99
445-10C	440-450MHz 200w N bandpass filt	109.99

DC SALES (DCS)

Tenna Hitch	3/4-24 trailer hitch antenna mt ..	\$ 38.99
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DAIWA (DAI)

CN-101	1.8-150 15/150/1.5kw SWR/pwr meter/light	\$ 99.99
CN-103M	140-525 20/200w SWR/power meter	99.99
CN-410M	3.5-150 15/150w mobile meter ..D	104.99
CN-460M	140-450 15/150w mobile meter ..D	104.99
CN-801H	1.8-200 20/200/2kw SWR/pwr meter	149.99
CN-801V	140-525 20/200w SWR/power meter	154.99
CS-201	2-position 600 MHz coax switch	26.99
CS-401	4-position 800 MHz coax switch ....D	139.99

DAVIS (DAV)

6150	Wireless Vantage Pro weather station ..	\$539.99
7400	Perception II indoor WX unit	139.99
7425	Wizard III weather station	179.99
7440	Monitor II weather station	269.99
7852	Rain Collector II, 0.01"	69.99
7977	Electronic rain counter, 0.01"	6.99
7859	External temp/humd Sensor II; 7440	119.99
7862	Weatherlink Win interface/software ...	149.99
7866	Weatherlink Mac interface/software ...	149.99
7870	Modem adapter for 7862/7866 ....Δ	2.99
7867	Weatherlink Mac to Win conv kit ....Δ	6.99
7868	Weatherlink Win to Mac conv kit ....Δ	6.99
7873	Cig lighter power cord	9.99
7876-040	4-conductor 40' extension cable	18.99
7878-040	6-conductor 40' extension cable	22.99
7880	8-conductor 25' junction box cable Δ	6.99
7881	8-conductor 50' junction box cable ..	25.99
7882	8-conductor 100' junction box cable ..	45.99
7890	Mast mount for anemometer	16.99
0131	Weather forecasting quick reference card ..	9.99
0271	Turbo Meter handheld dig wind indicator ..	139.99
0281	Wind Wizard handheld wind indicator ..	46.99

DELOORME (DEL)

Topo USA	US topographical maps CD-ROM ..	\$ 99.99
Earthmate	Laptop PC GPS/Street Atlas soft ..	139.99

DIAMOND (DIA)

SWR/POWER METERS

SX-20C	HF/6m/2m 30/300w meter	\$ 89.99
SX-40C	144-470 (220 w/correction) 15/150w ..	79.99
SX-100	1.6-60 MHz 30/300/3kw PEP meter ..	134.99
SX-200	1.8-200 MHz 5/20/200w PEP meter ..	94.99
SX-400	140-525 MHz 5/20/200w PEP meter ..	114.99
SX-600	Dual band 1.8-160/140-525 200w PEP mtr ..	169.99
SX-1000	1.8-160/430-1300MHz 200w PEP meter ..	214.99

HT & HANDHELD SCANNER ANTENNAS

RH-3	2m/440 1.75" BNC mini HT duck	\$ 24.99
RH-77CA	2m/440 15" BNC rubber gain ant ..	24.99
RH-205	2m 3/4 wave telescopic HT antenna ...	24.99
RH-519	2m/440 8.3" flexible BNC whip	27.99
RH-707	2m/440 8 1/2" tiltable BNC whip	33.99
RH-951S	2m/440/1.2GHz 15" BNC slim duck ..	44.99
SRH-519	2m/440 8.3" flexible SMA whip	32.99

Diamond - continued AES Price

SRH-805	2m/440/1.2GHz 1.75" SMA ant	27.99
SRH-815	2m/440/1.2GHz 6" flex SMA whip ..	36.99
SRH-999	6m/2m/440/1.2GHz 20" SMA whip ..	59.99

MONO-BAND MOBILE ANTENNAS

HF-6FX	6m 2.15db 44" mobile antenna	\$ 69.99
HF-50CX	6m 3.5db 71" mobile antenna	99.99
M-285	2m 3.4db 52.4" mobile antenna	31.99
M-685	6m 2.15db 52.4" mobile antenna	31.99
MG-200	2.4GHz 7db 23.6" N mobile ant	99.99
NR-2C	2m 4.1db 55.5" mobile antenna	39.99
NR-22L	2m 6.5db 96.8" mobile antenna	69.99
SG-2000HD	2m 5.2db 62.6" 250w mob ant ..	89.99
SG-6000NMO	52-54 2.15db 39" NMO mob ..D ..	49.99

DUAL-BAND MOBILE ANTENNAS

MR-77	2m/440 2.15/3.4db 20" magnetic ant ..	\$ 39.99
MR-77SMA	2m/440 2.15/3.4db 20" mag w/SMA ..	44.99
NR-72BNMO	Black 2m/440 2.15db 14" NMO	41.99
NR-73BNMO	Blk 2m/440 2.15/5.5db 34" NMO	57.99
NR-770HA	2m/440 3/5.5db 40" mobile ant ..	56.99
NR-770HB	Black 2m/440 3/5.5db 40" mobile	59.99
NR-770HMO	2m/440 3/5.5db 40" NMO mobile	56.99
NR-770HBNMO	Blk 2m/440 3/5.5db 40" NMO	59.99
NR-770RA	2m/440 3/5.5db 39" mobile ant ..	51.99
SG-M510	2m/440 2.15/5.5db 37" mob ant ...	59.99
SG-7000A	2m/440 2.15/3.8db 19" mobile	69.99
SG-7500A	2m/440 3.5/6db 41" mobile ant ...	79.99
SG-7500NMO	2m/440 3.5/6db 41" NMO ant ..	79.99
SG-7900A	2m/440 5/7.6db 62" mobile ant ...	114.99

TRI-BAND MOBILE ANTENNAS

CR-320A	2m/220/440 2.15/3.8/5.5db 36"	\$ 89.99
CR-627B	6m/2m/440 2.15/4.5/7.2db 60" ant ..	99.99
CR-627BNMO	6m/2m/440 2.15/4.5/7.2db 60" ..	99.99
HV-7A	10/6/2m/440 54" UHF mount mobile ant ..	109.99
HVC-7	40m loading coil for HV-7A/MV-3A ..	44.99
HVC-14	20m loading coil for HV-7A/MV-3A ..	37.99
HVC-18	17m loading coil for HV-7A/MV-3A ..	37.99
HVC-21	15m loading coil for HV-7A/MV-3A ..	37.99
NR-2000NA	2m/440/1.2 3.15/6.3/9.7db 39" N mob ..	89.99
SG-M911	6m/2m/440 2.15/3/5.8db 41" mob ..	69.99

MAGNET MOUNTS

DPK-4NM-M	Hvy mag mt, Yae N, 45" max ...D ..	\$ 14.99
DPK-4NM-N	Hvy dty mag mt, cbl, N, 45" max ..	45.99
K-702M	Hvy dty mag mt, 6 3/8" dia, 50" max ..	49.99
SPM-35	Hvy dty mag mt, cable, 45" max	39.99
SPM-NMO	Hvy dty NMO mag mt, cbl, 45" max ..	44.99

TRUNK LIP MOUNTING KITS

K-200	Folding hatch/tnk mt; NR/SG ants ....Δ ..	\$ 14.99
K-200KM	Folding hatch/tnk mt/coax; NR/SG ..	62.99
K-400	Hatch/trunk mt; NR/SG antennas	39.99
K-400C	Hatch/trunk mt w/coax; UHF mount ..	69.99
K-400CNMO	Hatch/trunk mt w/coax; NMO mt ..	69.99
K-400-3/8C	Trunk mount w/6.5" cable; 3/8-24 ..	69.99
C-101-3/8C	6.5" replacement coax K-400-3/8C ..D ..	22.99
C-110	10' extension cable for K-400-3/8C ..	14.99
K-412C	Light duty hatch/tnk mt w/coax; UHF mt ..	59.99
K-412CNMO	Light duty hatch/tnk mt w/coax; NMO ..	59.99
K-600M	Tilt angle trunk mt w/cable	57.99
K-601M	SO-239 hideaway trunk mt, 6' coax ..	69.99
K-601NMO	NMO hideaway trunk mt, 6' coax ..	69.99
C-110	10' extension cable for K-601 mts ..	14.99
K-604M	Tilt angle trunk mt w/flexible cable ..	57.99
K-9000LRM	Motorized luggage rack mount ..	109.99
K-9000TM	Motorized trunk/hatchback mt	109.99

GUTTER MOUNT

K-300	Folding gutter mt; NR/SG antennas ..D ..	\$ 19.99
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MIRROR & LUGGAGE RACK MOUNTS & KITS

K-540	Mirror/luggage rack mt; under 45"	\$ 35.99
K-540KM	Mirror/luggage rack mt w/coax	59.99
K-550*	Luggage mt; new mini vans (use GLP) ..	44.99
K-550KM*	Luggage mt w/SO-239 base/coax	69.99

Diamond - continued AES Price

*K-550 series not recommended for Yaesu ATAS-100

MOUNTING GROUP HARDWARE

C-101	SO-239 mt, 6.5' RG-316 low-loss coax ..	\$ 29.99
C-101NMO	NMO mt, 6.5' RG-316 low-loss coax ..	29.99
C-104SMA	4' RG-58 ext cbl; SMA male & SO-239 ..	16.99
C-105SMA	5' RG-58 ext cable; C-101/SMA male ..	16.99
C-110	10' ext cable; C-101/K-601/K-400-3/8C ..	14.99
C-110BNC	10' extension cable to BNC male ..	22.99
C-110SMA	10' RG-58 ext cable; C-101/SMA male ..	22.99
C-211	SO-239 mt, 6.5' coax, 10' coax extend ..	39.99
C-213	SO-239 mt, 13.5' RG-316 low-loss coax ..	37.99
C-213NMO	NMO mt, 13.5' RG-316 low-loss coax ..	37.99
6LP-5N	UHF mtg grp hrdwr; mini coax, Yae N ..D ..	2.99

MULTIBAND HF BASE VERTICAL ANTENNA

CP-6A	80/40/20/15/10/6m 200w PEP 16' vert ..	\$299.99
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MONO-BAND BASE STATION ANTENNAS

A-144S5	2m 5 el 37.5" boom 9db beam	\$ 59.99
A-430S10	430 10 el 43" boom 13db beam	69.99
A-430S15	430 15 el 89" boom 14.8db beam ..	89.99
A-502HB	6m 2 el 2.6' boom 6.3db beam	99.99
A-504HB	6m 4 el 10.7' boom 10.8db beam ...	149.99
CP-22E	2m 6.5db 9' base antenna	59.99
DP-6H62	6m 6db 21' base antenna	139.99
F-22A	2m 6.7db 10.5' base antenna	99.99
F-23A	2m 7.8db 15' base antenna	119.99
F-23C1	148-154MHz 7.8db 15' comm base ..	173.99
F-718A	440 11.5db 15' type N base antenna ..	209.99
F-718L	420-430MHz 11.5db ATV N base ant ..	219.99
G-200	2.4GHz 11db 6' N base antenna	214.99

DUAL-BAND BASE STATION ANTENNAS

U-200	440/1.2GHz 8.3/11.7db 6' N base ant ..	\$129.99
X-50A	2m/440 4.5/7.2db 5.6' base antenna ..	99.99
X-50NA	2m/440 4.5/7.2db 5.6' base N ant ...	99.99
X-200A	2m/440 6/8db 8.3' base antenna	139.99
X-500HA	Hvy duty 2m/440 8.3/11.7db 17.8' ant ..	239.99
X-500HNA	Hvy duty 2m/440 8.3/11.7db 17.8' N ant ..	239.99
X-510MA	2m/440 8.3/11.7db 17.2' base ant ..	189.99
X-510NA	2m/440 8.3/11.7db 17.2' type N ant ..	189.99
X-700HA	2m/440 9.3/13db 24' type base ant ..	399.99
X-700HNA	2m/440 9.3/13db 24' type N ant ..	399.99
X-2200A	2m/220 6/7.8db 11.5' base ant ...D ..	149.99

TRI-BAND BASE STATION ANTENNAS

D-130J	25-1300 MHz 200w discone ant	\$ 89.99
V-2000A	52-54MHz/2m/440 2.1/6.2/8.4db 8.3' ..	162.99
X-3200A	2m/220/440 6/7.8/8db 10' base	209.99
X-6000A	2m/440/1.2 6.5/9/10db 10.5' N	199.99

DUPLXERS & TRIPLEXERS

MX-62M	HF-6m & 2m/440, 12" cables dplx ..	\$ 74.99
MX-72D	HF-2m/440 400/150/100w duplexer ..	43.99
MX-72H	HF-2m/440 duplexer w/12" cables ..	46.99
MX-72N	HF-2m/440 dplx, 440 type N, 12" cables ..	49.99
MX-214D	2m/220 150/100w dplx, no cables ..	69.99
MX-324	2m/220/440 triplexer	99.99
MX-324D	2m/220/440 triplexer, no cables	99.99
MX-2000	HF-6m/2m/440 400/400/250w triplexer ..	84.99
MX-3000	HF-2m/440/1.2 400/200/100w triplexer ..	79.99

ACCESSORIES

CA-35R/RS	DC-500MHz 400w lightning protect ..	\$ 29.99
CX-210A	1.5kw DC-1000MHz coax switch	44.99
CX-210N	1.5kw DC-1500MHz N coax switch ..	74.99
CX-310A	HD 3-pos DC-800MHz coax switch ..	83.99
DL-30A	15/100w peak 0-500MHz dummy load ..	27.99
DL-30N	15/100w peak 0-500MHz N dummy load ..	39.99
GZV-4000	Variable 40A switching ps/meter/spkr ..	179.99
HB-400	HT air vent dash mount	4.99

DRAKE (DRA)

TNC-270	9600 bps controller; TR-270	\$169.99
R-8B	Shortwave receiver	1379.99
MS-8	1592 Speaker	49.99

Drake - continued AES Price

1590 35-55, 108-174 MHz VHF converter ..	249.99
7852 R-8B technical manual	39.99
1334 Mobile mount kit for SW-1/SW-2	2.99
1591 Interface computer soft; original R-8 ..D	.99

ECG (ECG)

U-105 Light duty antenna rotor/3-wire	\$ 69.99
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EASY-UP (UPS OK) (EAS)

EZ 29-24 Double strap chimney mount	D \$ 12.99
EZ 29-24S Stainless double strap chimney mt ..	17.99
EZ 48-3ABX 3' boxed tripod w/pitch pad kit ..	24.99
EZ 48-5ABX 5' boxed tripod w/pitch pad kit ..	34.99
EZ-516 5' 16 ga steel mast	pick-up only 7.99

EMERSON (EME)

EAN-3400 HDTV dig-ready amp omni TV ant D	\$ 49.99
ESR-220 Solar/dynamo AM/FM radio/flashlight ..	29.99
EVO-6500 900MHz wireless vid obs sys/5" mon D	169.99
EVO-6550 2nd 900MHz camera; EVO-6500 D	69.99
EVS-5000 2.4GHz wireless video/audio system	79.99
PDC-803/PMO-8030 Dig compass/LCD backlight	29.99
RP-001 12-function mini stainless multi tool D	6.99
RP-005 6-func flashing safety strobe/reflector	6.99
RP-103/MTK-001 12-func stainless multi tool	6.99

GAP VERTICALS (GAP)

DX-VIII Challenger 75*/40/20/15/12/10/6/2m 31.5'	\$299.99
*80m CW w/capacitor exchange from GAP	
Challenger Counterpoise	30.99
(SYN) 100' 3/8" black double braided rope ..	6.99
DX-VI Eagle 40/20/17/15/12/10m 21.5' rigid	309.99
DX-IV Voyager 160/80/40/20m 45'; use 350' guy	419.99
Voyager Counterpoise	55.99
(SYN) 350' 3/8" black double braided rope ..	39.99
Titan DX 75*/40/30/20/17/15/12/10m, 25' ..	339.99
*80m CW w/capacitor exchange from GAP	
100' Guy Kit with clamp	14.99
200' Guy Kit with clamp	22.99
Ground Mount Quick tilt mt for vertical ant ..	79.99
Ladder Mount Quick tilt mt; campers/RVs	79.99

GARMIN (GAR)

GPS-12CX Color GPS receiver	D \$199.99
GPS-12XL GPS receiver	219.99
GPS-III Plus Handheld/dash mt mapping GPS	299.99
GA-26C Low prof rem ant/cbl; GPSIII/III Plus	89.99
GA-27C Low prof rem ant/cbl; GPS-12CX/XL	89.99
010-10048-00 Mounting bracket; 12CX/XL ..	31.99
010-10082-00 Power/data cable	27.99
010-10085-00 Cig lighter adapter cable ..	23.99
010-10111-00 Mtg bkt; GPS-III Plus	31.99
010-10117-01 Carrying case	12.99
010-10121-00 MCX-BNC adapt cbl; 12CX/XL	25.99
010-10141-00 PC interface cable	38.99
010-10165-00 PC cable w/cig adapter	45.99
010-10215-00 MapSource US CD; GPS-III Plus	99.99
StreetPilot 12 ch dash mt mapping GPS	469.99
StreetPilot ColorMap 12 ch color mapping GPS	599.99
GA-26C Low prof remote ant w/cable/BNC	89.99
010-10082-00 Power/data cable	27.99
010-10085-00 Cig lighter adapter	23.99
010-10141-00 PC interface cable	38.99
010-10165-00 PC cable w/cig adapter	45.99
010-10199-03 Carrying case	D 12.99
010-10121-00 MapSource US road&rec CD	99.99
010-10215-03 MapSource MetroGuide CD ..	149.99
010-10227-00 Blank 8MB memory cartridge	58.99
010-10232-00 Carrying case	D 14.99
eMAP Deluxe GPS/mapping/8MB datacard/PC cbl	209.99
GA-27C Low profile remote ant/cable/MCX	89.99
010-10121-00 MCX to BNC adapter cable	25.99
010-10215-00 MapSource US road&rec CD	99.99

Garmin - continued AES Price

010-10215-03 MapSource MetroGuide CD ..	149.99
eTrex 12 ch mini GPS receiver	119.99
eTrex Summit 12ch mini GPS/compass/barometric	249.99
010-10203-00 Cig lighter cbl; eMAP & eTrex	39.99
010-10205-00 Data cable; eMAP & eTrex	22.99
010-10206-00 PC interface cbl; eMAP & eTrex	38.99
NavTalk Analog cellular phone/GPS combo Δ	299.99
010-10215-00 MapSource US road&rec CD	99.99
GPS-V Turn-by-turn navigation GPS/software ..	499.99
GA-26C Low prof remote ant w/cable/BNC	89.99
010-10082-00 Power/data cable	27.99
010-10111-00 Mounting bracket	31.99
010-10117-01 Carrying case	12.99
010-10215-03 MapSource MetroGuide CD ..	149.99
Rino-120 GPS/FRS/GMRS w/8mb mem/basemap	249.99

GEOCHRON (GEO)

World Watch Day/night Windows software ..	\$ 49.99
Std Blk/Gold* Std black/gold trim world clock/map	999.99
Std Oak/Gold* Std oak/gold trim world clock/map	999.99

*These items are drop-shipped (shipped direct to you from the Geochron factory). On factory drop-shippments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Redwood City, California via UPS, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. Please allow sufficient time for delivery on this special order item. Other Geochron models available on special order.

GLEN MARTIN (GME)

TOWERS

M-1330A 30' alum tower package w/Hazer .T	1609.99
M-1340A 40' alum tower package w/Hazer .T	1829.99
M-1350A 50' alum tower package w/Hazer .T	2069.99
M-1840A 40' alum tower package w/Hazer .T	2149.99
M-1850A 50' alum tower package w/Hazer .T	2409.99
M-1860A 60' alum twr pack w/Voyager Hazer T	3356.99
M-1870A 70' alum twr pack w/Voyager Hazer T	3659.99
ML-1800 Messenger line kit for GME towers ..	72.99
KB-1000 57" side arm; M-13 series	81.99
KB-1300 57" side arm; M-18 series	83.99
M-22 10' galv steel M-22 tower section	405.99
CHB-22 Footing assembly for M-22	261.99
B-22 Leveling base for M-22	379.99

ROOF-TOP TOWERS

RT-424 4.5' roof-top tower, anodized aluminum	\$163.99
RT-832 8' roof-top tower, anodized aluminum	242.99
RT-936 9' roof-top tower, anodized aluminum	396.99
RT-1832 17.5' roof-top tower, anodized aluminum	531.99
MC-10 Mast clamp; aluminum, 2 required	24.99
TB-25 Premium thrust bearing	79.99
LB-3755 Lag bolts, set of 8 3/4" x 5"	9.99
EL-3744 Concrete L-bolts, set of 8	14.99
RA-6024 24" side arm for roof towers	41.99
RA-6048 48" side arm for roof towers	53.99

HAZERS FOR ROHN TOWERS

H-2 Heavy duty aluminum Hazer system	\$361.99
H-3 Standard duty aluminum Hazer system ..	274.99
H-4 Heavy duty galv steel Hazer system	349.99
BW-8001 Brake winch for H-2/3/4	77.99
HR-2040 Roller bearing set for Hazers	64.99
HR-6010 T-X plates for H-2/3/4/5	26.99
HS-1301 Side arm for Hazers	64.99
ML-2500 Messenger line kit for Rohn towers	76.99
VH8-60 Voyager Hazer for 60' Rohn 45G	1410.99
VH8-70 Voyager Hazer for 70' Rohn 45G	1545.99
VH9-50 Voyager Hazer for 50' Rohn 55G	1331.99
VH9-60 Voyager Hazer for 60' Rohn 55G	1455.99
VH9-70 Voyager Hazer for 70' Rohn 55G	1567.99

Glen Martin - continued AES Price

LIGHTNING PROTECTION

LR-8400 Premium lightning rod kit	\$ 89.99
GR-4400 Ground rod wire clamp	6.99
GR-5080 8' x 5/8" ground rod	20.99
TL-0470 Terminal lug	2.99
LR-8418 Lightning rod point, 18" long	28.99
LR-8452 Clamp for holding rod to 2" mast	26.99
LR-8451 Clamp for holding rod to 1 1/2" mast	24.99
CW-2540 25' #4 bare copper ground wire ..	19.99
CW-5040 50' #4 bare copper ground wire ..	39.99
CW-7540 75' #4 bare copper ground wire ..	58.99
CW-1040 100' #4 bare copper ground wire ..	66.99
CW-1240 125' #4 bare copper ground wire ..	97.99
CW-1540 150' #4 bare copper ground wire ..	117.99

BUYING

HP-3000 Kevlar guy cable, 3000# break strength per ft	\$.99
HP-4500 Kevlar guy cable, 4500# break strength per ft	1.49
HP-7500 Kevlar guy cable, 7500# break strength per ft	1.99
WR-125 1/8" galv 7 x 7 guy cable .....	.49
WRS-156 1/2" stainless 7 x 19 guy cable per ft.	.79
WRS-187 3/4" stainless 7 x 19 guy cable per ft.	.89
WRS-250 1" stainless 7 x 19 guy cable per ft.	.99
WR-1862 3/8" U-bolt clip (also for Kevlar 3000/4500)	1.69
WR-2565 1" U-bolt clip (also for Kevlar 7500)	1.69
WR-3164 3/8" U-bolt clip	1.99
PT-2500 1" heavy duty thimble (for all Kevlar)	2.69
PT-3100 1 1/8" heavy duty thimble	2.99
PT-3700 1 3/8" heavy duty thimble	3.39
H-165 1/4" end cap (for Kevlar 3000/4500) ..	.79
H-164 1/8" end cap (for Kevlar 7500) .....	.89
H-142 3/8" end cap .....	.99
RG-4010 3/8" link connecting earthscrew to turnbuckle	7.99
ES-40 4" dia x 30" earth screw	21.99
EG-40 4" dia x 30" galvanized earth screw ..	32.99
ES-60 6" dia x 48" earth screw	38.99
EG-60 6" dia x 48" galvanized earth screw ..	54.99
ES-80 8" dia x 66" earth screw	67.99
TB-3806 1/2" x 30" galvanized turnbuckle	17.99
TB-5009 1/2" x 9" galvanized turnbuckle	23.99
TB-6212 3/8" x 12" galvanized turnbuckle	40.99

MASTS

M-1049 9' x 2" OD heavy duty galv steel mast	\$ 76.99
M-1040* 10' x 2" OD heavy duty galv steel mast T	118.99
MA-1040* 10' x 1.92" OD medium duty alum mast T	122.99
*Truck, freight collect on M-1040 & MA-1040	
MA-1049 9' x 1.92" OD medium duty alum mast	90.99
MA-2069 9' x 2.375" OD heavy duty alum mast	121.99
MA-1050 5' x 1.92" OD medium duty alum mast	62.99
MA-5050 5' x 1.31" OD light duty alum mast	41.99
MP-1409 9' x 2" OD .250 wall xtra HD fg mast	120.99
MP-1809 9' x 2" OD .125 wall med dty fg mast	70.99

WINCHES

B-800 800 lb capacity w/4.5:1 gear ratio	\$ 71.99
W-1100 1100 lb capacity w/3.9:1 gear ratio	39.99
W-1300 1300 lb capacity w/17:1 gear ratio ..	57.99
B-2000 2000 lb capacity w/17:1 gear ratio ..	125.99

TOWER CLIMBING EQUIPMENT

FP-5600 2 d-ring full body climbing harness (S-M)	\$ 81.99
FP-5601 2 d-ring full body climbing harness (L-XL)	81.99
FP-5602 4 d-ring full body climbing harness (S-M)	99.99
FP-5603 4 d-ring full body climbing harness (L-XL)	99.99
FP-2902 1"x2" web lanyard, 3/4" throat, snaphooks	44.99
FP-2903 1"x3" web lanyard, 3/4" throat, snaphooks	45.99
FP-2904 1"x4" web lanyard, 3/4" throat, snaphooks	45.99
FP-2905 1"x5" web lanyard, 3/4" throat, snaphooks	46.99
FP-2906 1"x6" web lanyard, 3/4" throat, snaphooks	47.99
FP-2923 1"x3" web lanyard, 3/4"&1 1/2" throat openings	90.99
FP-2924 1"x4" web lanyard, 3/4"&1 1/2" throat openings	91.99
FP-2925 1"x5" web lanyard, 3/4"&1 1/2" throat openings	92.99
FP-2926 1"x6" web lanyard, 3/4"&1 1/2" throat openings	93.99

Glen Martin - continued AES Price

All \$25+ GLEN MARTIN orders are shipped PREPAID (except M-1040 & MA-1040) at Glen Martin's expense direct to you from the factory (48 states). There is a \$75 residential address delivery charge on M-13 & M-18 series towers. We prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your order. Please allow sufficient delivery time. Most truck lines will not unload towers, so please be sure to have enough manpower and/or equipment on hand.

L.L. GRACE (GRA)

KCT Kansas City Tracker satellite package ... \$229.99
KCT/T Kansas City Tracker package/KC Tuner 329.99

GROTHE (GRO)

VS-2 Emergency vehicle siren \$ 89.99
VS-2LS/A Window mt siren/amber halogen ... 299.99
VS-2LS/B Window mt siren/blue halogen 299.99
VS-2LS/R Window mt siren/red halogen 299.99
VS-3 Volunteer vehicle PA/horn w/sprk 129.99
VS-4 P/A emergency vehicle siren w/sprk 139.99

GRUNDIG (GRU)

eTraveller VII Mini AM/FM/SW Rcvr \$129.99
G-2000A Porsche design AM/FM/SW receiver 99.99
MiniWorld 100PE Mini AM/FM/SW receiver ... 29.99
Satellit 800 AM/FM/SW/LW/aircraft receiver . 499.99
Traveller II PE Portable AM/FM/SW receiver . 49.99
Yacht Boy 300PE Port AM/FM/SW/LW Rcvr ... 79.99
Yacht Boy 400PE Port AM/FM/SW/LW Rcvr/ps 149.99

HAL (HAL)

DSP-4100/2K HF DSP modemspecial order 1495.99
DXP-38 External DSP HF radio modem 395.99
RTTY-1 RTTY tuning indicator 99.99

HARGER (HRG)

GBIS18114AE 3/4" copper entrance ground bar kit \$ 27.99
GBIS18148AE 3/4" copper station ground bar kit 64.99
GEL38A Package of 5 HD grounding lugs 15.99
GP1868.78AE 3/4" copper single pt gnd panel kit 54.99
GBX976AE NEMA-4x weatherproof enclosure 89.99

HEIL (HEI)

BM-5-4 Boom mic/single headset (HC-4) \$ 69.99
BM-5-5 Boom mic/single headset (HC-5) 69.99
BM-5-IC Boom mic/single headset/adaptor; lcom 86.99
BM-10-4 Boom mic/headset (HC-4) 89.99
BM-10-5 Boom mic/headset (HC-5) 89.99
BM-10-I Boom mic/headset; lcomD 69.99
BM-10-IC Boom mic/headset/adaptor; lcom 106.99
PRO-5-4 Boom mic/single headset (HC-4) .D 89.99
PRO-5-5 Boom mic/single headset (HC-5) .D 109.99
PRO-5-IC Boom mic/single headset/adaptor; lcom 137.99
PRO-SET-4 Deluxe boom mic/headset (HC-4) 130.99
PRO-SET-5 Deluxe boom mic/headset (HC-5) 130.99
PRO-SET-IC Dlx boom mic/headset/adaptor; lcom 147.99
PRO-SET-PLUS Dlx boom mic/headset (HC4&5) 189.99
AD-1-I Pro-Set 8-pin adapter cord for lcom 17.99
AD-1-K Pro-Set 8-pin adapt cord; Kenwood 17.99
AD-1-T Pro-Set 4-pin adapt cord; Ten-Tec . 17.99
AD-1-Y Pro-Set 8-pin adapter cord; Yaesu 17.99
AD-1-I-M Pro-Set modular adapt cord; lco 17.99
AD-1-K-M Pro-Set modular adapt cord; Ken 17.99
AD-1-Y-M Pro-Set modular adapt cord; Yae 17.99
HS-706 Boom mic/single headset; IC-706 series 59.99
Traveler 8P IC Bm mic/single headset; 8-pin lcom 89.99
Traveler 806 Boom mic/single headset; IC-706 89.99
Traveler 817 Boom mic/single headset; FT-817 89.99
FS-1 Foot switch 30.99
FS-1M Foot switch w/modular plug; IC-706 .. 30.99
FS-2 Dual switch foot switch 38.99
HS-1 Hand switch 25.99

Heil - continued

HC-4 DX'er's 'dream machine' mic element .. 30.99
HC-5 Key microphone element 30.99
AD-100 Mic/boomset adapt; FT-100/AD-1Y/CC-1Y 25.99
ADM-Y817 Mic/boomset adapt; FT817/AD1Y/CC1Y 25.99
HMP-M In-line mic pre/mod plug; 706/MKII .D 29.99
Classic 1930's desk mic/studio element & HC-5 229.99
GM-4 Goldline dual element studio mic w/HC-4 140.99
GM-5 Goldline dual element studio mic w/HC-5 140.99
GM-V Goldline vintage studio mic/matching xfmr 155.99
HM-10-4 Microphone with HC-4 element 65.99
HM-10-5 Microphone with HC-5 element 65.99
HM-10-Dual Mic w/HC-4 & HC-5 elements ... 115.99
HM-I Studio condenser microphone; lcom 95.99
ICM Pre-PRO lcom electret mic w/cable 89.99
ADM-706 Adapter; HM-I lcom 706/modular plug 25.99
CC-1-C 3/8" plug cable for Collins/Drake ... 33.99
CC-1-D 4-pin cable for Drake 30.99
CC-1-I 8-pin cable for lcom 30.99
CC-1-I-M Modular cable for lcom 30.99
CC-1-K 8-pin cable for Kenwood 30.99
CC-1-K-M Modular cable for Kenwood 30.99
CC-1-T Cable for Ten-Tec 30.99
CC-1-Y 8-pin cable for Yaesu 30.99
CC-1-Y-M Modular cable for Yaesu 30.99
LX-1 Balanced 41" Luxo boom 95.99
MA-1 Adjustable microphone boom 45.99
SB-1 Small adjustable mic boom w/C clamp 33.99
TB-1 Table base microphone stand 25.99
HMM-IC Condensor hand mic/8-pin plug; lcom 58.99
HMM-K Dual el hand mic/HC-4/8-pin plug; Ken 78.99
HMM-Y Dual el hand mic/HC-4/8-pin plug; Yae 78.99
Boom Clip for BM-series 5.99
Ear Pads for BM-seriespair 5.99
Ear Pads for PRO-seriespair 8.99
Ham Radio Handbook 12.95
HD-AT 6db headph attenuator, 1/4"m-3/4" f adapt 5.99
SM-1 Shock mount for any microphone boom 50.99
XT-1 Audio matching xfmr; lo-Z mic/tube Xcvr 15.99

HUSTLER (HUS)

RM-80 80m CW 400w PEP resonator \$ 26.99
RM-75 75m phone 400w PEP resonator 26.99
RM-40 40m 400w PEP resonator 24.99
RM-30 30m 400w PEP resonator 24.99
RM-20 20m 400w PEP resonator 21.99
RM-17 17m 400w PEP resonator 21.99
RM-15 15m 400w PEP resonator 15.99
RM-12 12m 400w PEP resonator 15.99
RM-11 CB 400w PEP resonator 15.99
RM-10 10m 400w PEP resonator 15.99
RM-80S 80m CW 2kw PEP resonator 49.99
RM-75S 75m phone 2kw PEP resonator 49.99
RM-40S 40m 2kw PEP resonator 35.99
RM-20S 20m 2kw PEP resonator 28.99
RM-15S 15m 2kw PEP resonator 24.99
RM-11S CB 2kw PEP resonator 23.99
RM-10S 10m 2kw PEP resonator 23.99
MO-1 54" mast for fender or deck mount 31.99
MO-2 54" mast for bumper mount 31.99
MO-3 54" no break-over mast 23.99
MO-4 22" mast for special applications 19.99
VP-1 Tri-band adapter 5.99
RSS-2 Resonator spring 9.99
QD-2 Stainless quick disconnect 19.99
L-14-144 12' RG-58, PL-259 to lugs 9.99
L-14-240 20' RG-58, PL-259 to lugs 12.99

STAINLESS 2" MOBILE BALL MOUNTS

SSM-1 Ball & spring, cadmium hardware \$ 46.99
SSM-2 Ball, cadmium hardware 26.99
SSM-3 Stainless steel spring 24.99

AES Price

Hustler - continued

AES Price

1-1/2" MOBILE BALL MOUNTS

C-32 Chrome plated ball \$ 11.99
C-30 Chrome plated spring 11.99
C-29 Stainless steel spring 17.99
BM-1 Single strap bumper mt w/C-32 21.99

3/8-24 THREAD MOBILE MOUNTS

HLM Trunk lip mount w/swivel \$ 22.99
HOT Hustloff trunk lip mt w/swivel 23.99
MBM Super magnet mount w/16' coax 19.99
RVM Recreational vehicle mount 20.99
TLM Trunk lip mount 21.99

HF ANTENNAS

4-BTV 40/20/15/10m 21' trap vertical \$119.99
5-BTV 80/40/20/15/10m 25' trap vertical 149.99
30-MTK 30m trap kit for 4-BTV/5-BTV 41.99
6-BTV 80/40/30/20/15/10m 24' trap vert 179.99

VHF/UHF BASE STATION ANTENNAS

G3-144 2m 3db 7.5' vertical antenna \$ 63.99
G6-144B 2m 6db 10' vertical antenna 114.99
G6-270R 2m/440 6db 7.6' base station ant . 159.99
G7-144 2m 7db 15' vertical antenna 159.99
G7-220 220 MHz 7db 10' vertical antenna ... 149.99
G6-440 440 MHz 6db 7' vertical antenna 139.99

VHF/UHF MOBILE ANTENNAS

BBG-144 2m 3.4db NMO coil/whip only \$ 39.99
BBGT-144 2m 3.4db NMO trunk lip mt ant ... 49.99
BBG-440-5 440 5db NMO coil/whip only 39.99
BBGT-440-5 440 5db NMO trunk lip mt ant .. 49.99
BBL-144A 2m 3/4" hole mt antenna, 3.4db 39.99
BBLT-144A 2m trunk lip mt ant, 3.4db 47.99
CG-144 2m 1/2-24 ant, 7' high, 5.2db 31.99
CGT-144 2m trunk mt ant, 7' high, 5.2db 51.99
CG-220 220 MHz 1/2-24 ant, 5.2db 29.99
CGT-220 220 MHz 5.2db tnk mt ant 49.99
FX-220B 220 3.4db black mag mt antD 19.99
LMB-144 2m 3.4db black NMO coil/whip only 22.99
LMB-270 2m/440 2.4/4db black NMO coil/whip only 32.99
LMB-440-5 440 5db black NMO coil/whip only 19.99
LMC-144 2m 3.4db NMO coil/whip only 19.99
LMC-270 2m/440 2.4/4db NMO coil/whip only 31.99
LMC-440-5 440 5db NMO coil/whip only 19.99
LMG-144 2m 3.4db NMO pushpin coil/whip only 25.99
LMG-440-5 440 5db NMO pushpin coil/whip only 19.99
MKR-2 Radial kit for CG/RX/SF-antennas 20.99
MX-2 2m 3db black & chrome NMO mag mt ant 34.99
MX-2B 2m 3db all black NMO mag mt ant ... 39.99
MX-220 220 3db blk & chrome NMO mag mt ant 34.99
MX-270 2m/440 2.4/4db chrome NMO mag mt ant 59.99
MX-440 440 5db blk & chrome NMO mag mt ant 36.99
MX-440B 440 5db all black NMO mag mt ant 36.99
RX-2 2m 3.4db magnetic mount ant 24.99
RX-220 220 3.4db magnetic mt antenna 24.99
RX-440 440 5db magnetic mt antenna 24.99
SF-2 2m 1/2-24 ant, 4' high, 3.4 db 14.99
SF-220 220 MHz 1/2-24 antenna, 3 db 14.99
THF 140-500 MHz 1/4 wave trunk mount ant .. 23.99
UGM 140-500 MHz 1/4 wave BNC mag mt ant 21.99
UHT-1 140-500 MHz 1/4 wave roof mt ant 14.99

CB & MONITOR ANTENNAS

1C-11 White trunk mount CB antenna \$ 13.99
1C-11B Black trunk mt CB antenna 13.99
1C-100 White magnetic mount CB antenna . 21.99
1C-100B Black magnetic mt CB antenna 21.99
DTG 25" fg double-talk gutter mt CB ant 39.99
FG-27S 48" CB whip 11.99
HQ-27 Power Packer 3/4-24 CB whip 17.99
HQ-27M Power Packer trunk mt CB antenna 36.99
HQD Dual fg mirror mount CB antenna 49.99
HQT Single fg mirror mount CB antenna 27.99
HTM-1 Twin Husky fg ant w/mirror mtsD 26.99

Hustler - continued**AES Price**

RQM Magnetic mount CB antenna	19.99
RTG-27L 25" CB antenna w/rain gutter mt ...	26.99
RTM 25" magnetic mount CB antenna	16.99
RTS-27L 25" CB antenna w/roof mount	26.99
SCB/BLK 46" black CB whip	34.99
SCB/BLU 46" blue CB whip	34.99
SCB/RED 46" red CB whip	34.99
SCB/WHT 46" white CB whip	34.99
SCB-S/BLK 35" black CB whip	34.99
SCB-S/BLU 35" blue CB whip	34.99
SCB-S/RED 35" red CB whip	34.99
SCB-S/WHT 35" white CB whip	34.99
DCL Discone monitor ant/50' coax/Motorola plug Δ	34.99
DCL-B Discone monitor ant/50' coax/BNC plug	34.99
DCX Discone monitor ant; 40-700 MHz	23.99
MOR Roof/deck mt 3-band Motorola plug mon ant Δ	18.99
MOR-B Roof/deck mt tri-band BNC monitor ant	18.99
MOT Trunk lip mt tri-band Motorola plug mon ant Δ	19.99
MOT-B Trunk lip mt tri-band BNC monitor ant	19.99
MRM-B Magnet mt tri-band BNC monitor ant	19.99

HY-GAIN (HYG)

190S RRK-88 Roof radial kit	Δ \$ 29.99
191S 160MK-88 160m kit for 188S	Δ 69.99

MULTI-BAND VERTICAL ANTENNAS

AV-620 20/17/15/12/10/6m vertical ant	\$269.99
AV-640 40/30/20/17/15/12/10/6m vertical ...	359.99

ANTENNA ROTORS

AR-40 3 sq ft antenna rotor/5-wire	\$269.99
CD-45-II 8.5 sq ft antenna rotor/8-wire	369.99
HAM-IV 15 sq ft antenna rotor/8-wire	529.99
HAM-V Digital 15 sq ft antenna rotor/8-wire	899.99
HDR-300A Hvy duty dig 25 sq ft rotor/8-wire	1229.99
T-2X Tailtwister 20 sq ft antenna rotor/8-wire	619.99
T-2XD Tailtwister dig 20 sq ft ant rotor/8-wire	979.99

OPTIONAL ACCESSORIES FOR ROTORS

DCU-1 Dig rotor control; CD-45/HAM-IV/T-2X	\$619.99
MSHD Lwr mast support; HAM-IV/V/T-2X/XD	81.99
MSLD Lower mast support; CD-45-II/AR-40	29.99
TSP-1 Tower spacer plate	29.99

See BELDEN for rotor cable

ICOM (ICO)

IC-775DSP Xcvr/ps/keyer/tuner/IF-DSP	3499.99
CR-282 High stability crystal unit	149.99
CT-17 CI-V level converter	139.99
FL-53A 250 Hz 455 KHz IF CW filter	189.99
FL-101 250 Hz 9 MHz IF CW filter	119.99
FL-102 6 KHz 9 MHz IF AM filter	94.99
FL-222 1.9 KHz 455 KHz IF SSB filter	199.99
FL-223 1.9 KHz 9 MHz IF SSB filter	99.99
FL-257 3.3 KHz 455 KHz IF SSB filter	189.99
HM-36 Scanning hand mic	74.99
MB-19 Rack mounting handles	74.99
SM-6 Desk microphone	119.99
SM-20 Deluxe desk microphone	219.99
SP-20 Speaker w/audio filter	249.99
SP-21 External speaker	119.99
UT-66 Voice synthesizer	83.99
IC-776PRO Xcvr/Rcvr/6m/IF-DSP/tuner/keyer D	1899.99
IC-756PRO II Xcvr/Rcvr/6m/IF-DSP/tuner/keyer	2969.99
PS-125 25A switching power supply	299.99
AH-4 80-6m 120w auto wire ant tuner ...†	269.99
AH-2B Whip w/mt; 40-6m use tuner	299.99
AH-2B extra whip only	119.99
CT-17 CI-V level converter	139.99
HM-36 Scanning hand mic	74.99
OPC-025D Extra DC cable	29.99
SM-6 Desk microphone	119.99
SM-20 Deluxe desk microphone	219.99
SP-20 Speaker w/audio filter	249.99

Icom - continued**AES Price**

SP-21 External speaker	119.99
UT-102 Voice synthesizer	74.99
IC-746 Xcvr/Rcvr/6m/2m/IF-DSP/tuner/mic D	1299.99
PS-85 20A switching power supply	Δ 249.99
PS-125 25A switching power supply	299.99
AH-4 80-6m 120w auto wire ant tuner ...†	269.99
AH-2B Whip w/mt; 40-6m use tuner	299.99
AH-2B extra whip only	119.99
CR-282 High stability crystal unit	149.99
CT-17 CI-V level converter	139.99
FL-52A 500 Hz 455 KHz IF CW filter	189.99
FL-53A 250 Hz 455 KHz IF CW filter	189.99
FL-96 2.8 KHz 455 KHz IF SSB filter	Δ 149.99
FL-100 500 Hz 9 MHz IF CW filter	119.99
FL-101 250 Hz 9 MHz IF CW filter	119.99
FL-103 2.8 KHz 9 MHz IF SSB filter	109.99
FL-222 1.9 KHz 455 KHz IF SSB filter	199.99
FL-223 1.9 KHz 9 MHz IF SSB filter	99.99
FL-232 350 Hz 9 MHz IF CW/RTTY filter	99.99
FL-257 3.3 KHz 455 KHz IF SSB filter	189.99
OPC-025D Extra DC cable	29.99
RS-746 Win remote control software	Δ 79.99
SM-6 Desk microphone	119.99
SM-20 Deluxe desk microphone	219.99
SP-20 Speaker w/audio filter	249.99
SP-21 External speaker	119.99
UT-102 Voice synthesizer	74.99
IC-746PRO Xcvr/Rcvr/6m/2m/IF-DSP/tuner/mic	1899.99
PS-125 25A switching power supply	299.99
AH-4 80-6m 120w auto wire ant tuner ...†	269.99
AH-2B Whip w/mt; 40-6m use tuner	299.99
AH-2B extra whip only	119.99
CR-338 High stability crystal unit	81.99
CT-17 CI-V level converter	139.99
OPC-025D Extra DC cable	29.99
SM-6 Desk microphone	119.99
SM-20 Deluxe desk microphone	219.99
SP-20 Speaker w/audio filter	249.99
SP-21 External speaker	119.99
UT-102 Voice synthesizer	74.99
UT-30 Tone encoder; IC-707	Δ 49.99
IC-718 HF Xcvr/SW Rcvr/mic	599.99
UT-106 DSP FREE from Icom w/IC-718; USA thru 6/30/02	
PS-85 20A switching power supply	Δ 249.99
PS-125 25A switching power supply	299.99
AH-4 80-6m 120w auto wire ant tuner ...†	269.99
AH-2B Whip w/mt; 40-6m use tuner	299.99
AH-2B extra whip only	119.99
AT-180 Auto coax antenna tuner; HF+6m †	369.99
OPC-598 23' extension cable for AT-180	69.99
CR-338 High stability crystal unit	81.99
CT-17 CI-V level converter	139.99
FL-52A 500 Hz 455 KHz IF CW filter	189.99
FL-53A 250 Hz 455 KHz IF CW filter	189.99
FL-96 2.8 KHz 455 KHz IF SSB filter	Δ 149.99
FL-222 1.9 KHz 455 KHz IF SSB filter	199.99
FL-257 3.3 KHz 455 KHz IF SSB filter	189.99
Suggest dealer installation of filters in IC-718	
MB-5 Mobile mount	59.99
MB-23 Side mount carrying handle	15.99
OPC-025D Extra DC cable	29.99
SM-6 Desk microphone	119.99
SM-20 Deluxe desk microphone	219.99
SP-7 Small external speaker	94.99
SP-20 Speaker w/audio filter	249.99
SP-21 External speaker	119.99
UT-102 Voice synthesizer	74.99
UT-106 Plug-in DSP	149.99
IC-706 Mk II-G Mini Xcvr/Rcvr/6m/2m/4400DSP †	899.99
RMK-706 FREE from Icom w/IC-706 Mk II-G; USA thru 6/30/02	
(BET) 706 Tune Control for IC-706-series ...	32.99

Icom - continued**AES Price**

PS-85 20A switching power supply	Δ 249.99
PS-125 25A switching power supply	299.99
AH-4 80-6m 120w auto wire ant tuner ...†	269.99
AH-2B Whip w/mt; 40-6m use tuner	299.99
AH-2B extra whip only	119.99
AT-180 Auto coax antenna tuner; HF+6m †	369.99
OPC-598 23' extension cable for AT-180	69.99
CR-282 High stability crystal unit; Mk II G.	149.99
Suggest dealer install; CR-282, IC-706 Mk II-G	
CT-17 CI-V level converter	139.99
FL-100 500 Hz 9 MHz IF CW filter	119.99
FL-101 250 Hz 9 MHz IF CW filter	119.99
FL-103 2.8 KHz 9 MHz IF SSB filter	109.99
FL-223 1.9 KHz 9 MHz IF SSB filter	99.99
FL-232 350 Hz 9 MHz IF CW/RTTY filter	99.99
HM-118TN TTP microphone	59.99
MB-62 Mounting bracket for main unit	25.99
MB-63 Mounting bracket for control panel	18.99
MB-65 Mounting base platform	35.99
MB-72 Carrying handle; Mk II-G only	14.99
OPC-025D Extra DC cable	29.99
OPC-581 11.5' separation cable	60.99
OPC-587 16' separation cable	79.99
OPC-599 7+8-pin to 13-pin adapter	60.99
OPC-742 13-pin cable	59.99
RMK-706 Package; MB-62/MB-63/OPC-581	70.99
SM-6 Desk microphone	119.99
SM-20 Deluxe desk microphone	219.99
OPC-589 8-pin to jack adapt; SM-6/8/20	35.99
SP-7 Small external speaker	94.99
SP-10 Slim-line external speaker	69.99
UT-102 Voice synthesizer	74.99
AH-710 1.9-30 MHz 80' folded dipole	299.99
PW-1 160-15+6m linear amp/ps/tuner	4699.99
OPC-137 Adapter cable; older Icom Xcvr .D	19.99
UT-86 Tone squelch; IC-706 Mk II only	Δ 69.99
RECEIVERS	
R-2-06 .5M-1.3G AM/FM hand/batts/cgr/cell blkd †	\$154.99
CSW-HHRX soft/cbl FREE from Icom w/R-2-06; USA thru 6/30/02	
R-2-07* .5MHz-1.3GHz AM/FM hand Rcvr ...†	179.99
CSW-HHRX soft/cbl FREE from Icom w/R-2-07; USA thru 6/30/02	
AD-92SMA SMA- BNC adapter	16.99
BC-127A Extra nicad charger	20.99
CS-R2 DOS programming software; R-2	13.99
OPC-474 Cloning cable (R-2 to R-2)	18.99
OPC-478 PC - radio programming cable	45.99
CSW-HHRX Win prog soft/cable; R-2/R-10	50.99
HP-4 Lightweight headphones	29.99
LC-146 Carrying case	38.99
SP-13 Earphone	4.99
R-3-26 .5M-2.45G AM/FM/TV hand Rcvr/cell blkd †	349.99
R-3-27* .5MHz-2.45GHz AM/FM/TV hand Rcvr	489.99
BC-135 Desktop charger w/adaptor cup	80.99
BP-206 Extra 3.7v 1650ma lith ion batt ...	63.99
CP-18A Cig lighter adapter	30.99
CS-R3 Win programming software	24.99
OPC-474 Cloning cable (R-3 to R-3)	18.99
OPC-478 PC - radio programming cable	45.99
HP-4 Lightweight headphones	29.99
LC-151 Carrying case	24.99
SP-13 Earphone	4.99
R-10-05 .5M-1.3G AM/FM/SSB hand/cell blkd	299.99
CSW-HHRX soft/cbl FREE from Icom w/R-10-05; USA thru 6/30/02	
R-10-15* .5MHz-1.3GHz AM/FM/SSB HH Rcvr	299.99
CSW-HHRX soft/cbl FREE from Icom w/R-10-15; USA thru 6/30/02	
CP-12L Right angle cig cable w/filter	36.99
CS-R10 DOS programming software; R-10	13.99
OPC-474 Cloning cable (R-10 to R-10) ..	18.99
OPC-478 PC - radio programming cable	45.99
CSW-HHRX Win prog soft/cable; R-10/R-2	50.99
CT-17 CI-V level converter	149.99

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AES Price

HP-4	Lightweight headphones	29.99
LC-140	Carrying case for R-10	38.99
OPC-254L	Right angle mini DC pwr cable	14.99
SP-13	Earphone	4.99
CK-70	(EX-299) 12v DC option; R-7000	29.99
PCR-100-12	.01-1300 am/fm PC Rcvr/cell blkd D	249.99
PCR-100-08*	.01-1300 PC controlled Rcvr	249.99
AH-7000	25-1000 MHz discone ant w/coax	179.99
PCR-1000-02	.5-1300 am/fm/sb PC Rcvr/cell blkd	349.99
PCR-1000-07*	.5-1300 PC control Rcvr	349.99
AH-7000	25-1000 MHz discone ant w/coax	179.99
UT-106	Plug-in DSP unit	149.99
R-75	.03-600 MHz shortwave receiver	599.99
UT-106 DSP FREE from Icom w/R-75; USA thru 6/30/02		
CR-282	High stability crystal unit	149.99
CT-17	CI-V level converter	139.99
FL-52A	500 Hz 455 KHz IF CW filter	189.99
FL-53A	250 Hz 455 KHz IF CW filter	189.99
FL-96	2.8 KHz 455 KHz IF SSB filter	149.99
FL-100	500 Hz 9 MHz IF CW filter	119.99
FL-101	250 Hz 9 MHz IF CW filter	119.99
FL-103	2.8 KHz 9 MHz IF SSB filter	109.99
FL-222	1.9 KHz 455 KHz IF SSB filter	199.99
FL-223	1.9 KHz 9 MHz IF SSB filter	99.99
FL-232	350 Hz 9 MHz IF CW/RTTY filter	99.99
FL-257	3.3 KHz 455 KHz IF SSB filter	189.99
MB-5	Mobile mount	59.99
MB-23	Side mount carrying handle	15.99
OPC-869	DC cable	13.99
RS-R75	PC control software w/RS-232 cable	80.99
SP-21	External speaker	119.99
UT-102	Voice synthesizer	74.99
UT-106	Plug-in DSP unit	149.99
R-8500-02	1M - 2G receiver/cell blocked	1499.99
R-8500-04*	1MHz - 2GHz receiver	1499.99
AH-7000	25-1000 MHz discone ant w/coax	179.99
CR-293	High stability xtal unit	329.99
FL-52A	500 Hz CW filter	189.99
MB-12	Mobile mount	59.99
MB-23	Side mount carrying handle	15.99
RS-R8500	PC control soft w/RS-232 cable	80.99
SP-7	Small external speaker	94.99
SP-21	External speaker	119.99
UT-102	Voice synthesizer	74.99
R-9000L*	1-1.999.8MHz Rcvr/LCD disp spec order	8299.99
AH-7000	25-1000 MHz discone ant w/coax	179.99
CT-17	CI-V level converter	139.99
SP-20	Speaker w/audio filter	249.99

*United States & state government agencies or a political subdivision thereof and communications utility companies and their legal agents **ONLY** may purchase unblocked models of R-2/R-3/R-10/PCR-100/PCR-1000/R-8500/R-9000L for official government or communications utility company use only. Mail or FAX purchase order to AES. Exports: inquire.

2m TRANSCEIVERS

UT-101	DTMF unit for IC-2000H	\$ 28.99
IC-2100H	50w 2m FM Xcvr/HM-98S TTP mic D	149.99
IC-2100H-25N	50w 2m FM Xcvr/NEW TTP mic	179.99
CS-2100	DOS cloning software	13.99
OPC-478	PC to radio cloning cable	45.99
CSW-2100	Win prog soft/cable; IC-2100H	50.99
HM-90A	Wireless microphone	89.99
BC-96	Wireless microphone holder	39.99
CP-13L	Cig cable w/filter for BC-96	39.99
EX-1759	Infrared receiver	99.99
EX-1513	Infrared Rcvr range extender	19.99
HM-98S	Extra TTP mic; original IC-2100H	90.99
HS-62	Flexible mobile mic	29.99
MB-17A	Quick release bracket	49.99
MB-28H	Extra mobile bracket	26.99

Icom - continued

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OPC-346	Extra 9.8' DC cable	46.99
OPC-347	23' DC cable	46.99
OPC-440	Mic extension cable	85.99
OPC-441	Speaker extension cable	33.99
OPC-474	Radio to radio cloning cable	18.99
OPC-589	8-pin to jack adapter	35.99
OPC-647	8.2' mic extension cable	54.99
SP-10	Slim-line external speaker	69.99
IC-V8000	75w 2m FM Xcvr w/WX alert/scan	249.99
CS-V8000	Windows cloning software	35.99
OPC-478	PC to radio cloning cable	45.99
OPC-347	23' DC cable	46.99
OPC-440	Mic extension cable	85.99
OPC-441	Speaker extension cable	33.99
OPC-474	Radio to radio cloning cable	18.99
OPC-589	8-pin to jack adapter	35.99
OPC-647	8.2' mic extension cable	54.99
SP-10	Slim-line external speaker	69.99
UT-108	DTMF decoder unit	35.99
V8000-MMB	Extra mobile bracket	26.99
IC-207H	50w 2m/35w 440 FM Xcvr/TTP	299.99
OPC-600 cable FREE from Icom w/IC-207H; USA thru 6/30/02		
CS-207	DOS prog software; IC-207H	13.99
CSW-207/2710	Win cloning soft; 207/2710	30.99
OPC-646	Prog cbl; CS-207/CSW-207/2710	89.99
HM-90A	Wireless microphone	89.99
BC-96	Wireless microphone holder	39.99
CP-13L	Cig cable w/filter for BC-96	39.99
EX-1759	Infrared receiver	99.99
EX-1513	Infrared Rcvr range extender	19.99
MB-17A	Quick release bracket	49.99
MB-28H	Extra mobile bracket	26.99
MB-58	Remote controller bracket	39.99
MB-65	Mounting base platform	35.99
OPC-346	Extra 9.8' DC cable	46.99
OPC-347	23' DC cable	46.99
OPC-440	Mic extension cable	85.99
OPC-441	Speaker extension cable	33.99
OPC-589	8-pin to jack adapter	35.99
OPC-600	11.5' extension cable	45.99
OPC-601	23' extension cable	59.99
OPC-647	8.2' mic extension cable	54.99
RMK-3	Package; MB-58/OPC-600/OPC-647	84.99
SP-10	Slim-line external speaker	69.99
MB-26	Mobile mount; IC-281H/2710H	9.99
UT-89	Tone scan/decode unit; IC-2350H	89.99
UT-104	Tone squelch unit; IC-2710H	39.99
IC-2800H	50w 2m/35w 440 FM Xcvr/9600	499.99
CS-2800	Windows cloning software	13.99
OPC-478	PC to radio cloning cable	45.99
HM-90A	Wireless microphone	89.99
BC-96	Wireless microphone holder	39.99
CP-13L	Cig cable w/filter for BC-96	39.99
EX-1759	Infrared receiver	99.99
EX-1513	Infrared Rcvr range extender	19.99
MB-17A	Quick release bracket	49.99
MB-28H	Extra mobile bracket	26.99
MB-65	Mounting base platform	35.99
MB-73	Controller bracket	24.99
OPC-346	Extra 9.8' DC cable	46.99
OPC-347	23' DC cable	46.99
OPC-440	Mic extension cable	85.99
OPC-589	8-pin to jack adapter	35.99
OPC-647	8.2' mic extension cable	54.99
OPC-872	Controller extension cable	27.99
SP-10	Slim-line external speaker	69.99
UT-49	DTMF decoder unit	69.99
UT-84	Tone squelch unit; IC-2700H/821H	89.99
IC-910H	100w 2m/75w 430 FM/SSB Xcvr	1199.99
PS-125	25A switching power supply	299.99
AG-25	2m mast mounted GaSfET preamp	189.99

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AG-35	430 MHz mast mounted preamp	199.99
AG-1200	1.2 GHz mast mt preamp	159.99
CR-293	High stability xtal unit	329.99
CT-17	CI-V level converter	139.99
FL-132	500 Hz main Rcvr CW filter	119.99
FL-133	500 Hz sub band Rcvr CW filter	119.99
MB-5	Mobile mount	59.99
MB-23	Side mount carrying handle	15.99
SM-20	Deluxe desk microphone	219.99
SP-7	Small external speaker	94.99
SP-10	Slim-line external speaker	69.99
UT-102	Voice synthesizer	74.99
UT-106	Plug-in DSP unit	149.99
UX-910	10w 1.2GHz module	499.99
OPC-333	23' sep kit; Delta100H	1.99

Accessories for IC-2AT

BC-250	Extra wall cgr; BP-3 only	\$ 29.99
BM-112U/BC-16U	Wall cgr; 5A/7/8 only	26.99
BP-3	250ma 8.4v battery	49.99
BP-4	Alkaline battery case	35.99
BP-5	425ma 10.8v high power battery	89.99
BP-8	800ma 8.4v long life battery	99.99
CP-1	Cig cgr; BP-3/7/8/DC cord	24.99
CP-11	Cig cord w/noise filter	39.99
DC-1	DC operation module	39.99

IC-T2H Sport	6w 2m FM HT/battery holder	99.99
AD-81	Batt pack adapter for rapid charger	17.99
BC-110A/BC-74	Extra wall charger	40.99
BC-119-01	Desk charger (adapter required)	84.99
BC-133	Drop-in trickle charger	39.99
BC-122A	AC adapter for BC-133	16.99
BP-194	AA alkaline battery case	18.99
BP-195	9.6v 700ma nicad battery	42.99
BP-196	9.6v 1050ma nicad battery	53.99
CP-12L	Rt angle cig charge cable w/filter	36.99
CP-17L	Right angle cig cable for charger	24.99
CS-T2	DOS prog software for IC-T2	13.99
OPC-474	Cloning cable (T2 to T2)	18.99
OPC-478	PC to radio cloning cable; T2	45.99
CSW-HH4	Windows prog soft w/cable; T2	50.99
HM-46	Slim-line speaker/mic	45.99
HM-54	Hvy duty spkr/mic	83.99
HM-75A	Remote control microphone	70.99
HM-128	Earphone+microphone	25.99
HS-51	Headset w/VOX	96.99
HS-94	Ear-piece style headset; use w/VS-1	24.99
VS-1	VOX-PTT unit for HS-94	42.99
LC-145	Carrying case for IC-T2	38.99
LCF3 Swivel	Leather case with swivel	50.99
MB-68	Extra standard belt clip	5.99
MB-74	Spring loaded belt clip	12.99
MB-87	Swivel belt clip	9.99
OPC-254L	Right angle mini DC chg cable	14.99
SP-13	Earphone	4.99
IC-V8	5.5w 2m FM HT/batt/cgr/TTP	149.99
BC-144-01	Desk charger with adapter	89.99
BP-208	Battery case	18.99
BP-209	7.2v 1100ma 5.5w battery	53.99
BP-210	7.2v 1650ma 5.5w battery	80.99
BP-222	7.2v 600ma 5.5w battery	35.99
CP-17L	Right angle cig cable for charger	24.99
CS-V8	Cloning software for IC-V8	35.99
OPC-474	Cloning cable (V8 to V8)	18.99
OPC-478	PC to radio cloning cable; V8	45.99
HM-46L	Slim-line spkr/mic, rt angle plug	45.99
HM-54	Hvy duty spkr/mic	83.99
HM-75A	Remote control microphone	70.99
HS-51	Headset w/VOX	96.99
HS-94	Ear-piece style headset; use w/VS-1L	24.99
VS-1L	Right angle VOX-PTT unit for HS-94	42.99
LCF3G Swivel	Leather case with swivel	50.99

Icom - continued **AES Price**

MB-68	Extra standard belt clip	5.99
MB-74	Spring loaded belt clip	12.99
MB-87	Swivel belt clip	9.99
OPC-515L	Right angle DC cord for charger	20.99
SP-13	Earphone	4.99
UT-108	DTMF decoder unit	35.99
IC-T22A	5w 2m FM HT/batt/cgr/TTP	249.99
IC-T7H	6w 2m/440 HT/batt/cgr/TTP	199.99
AD-51	Batt pack adapt; W32A/rapid cgr .Δ	9.99
AD-56	Batt pack adapt; T7H/T22A/rapid cgr	18.99
BC-119-11	Desk charger (adapter required) D	89.99
BC-119-N11	Nicad/NiMH desk cgr (adapt required)	89.99
BP-170	Battery case	35.99
BP-172	4.8v 950ma battery	91.99
BP-173	9.6v 600ma battery	139.99
BP-180	7.2v 600ma battery	83.99
CP-12	Cig lighter cable w/filter	36.99
CP-12L	Right angle cig cable w/filter	36.99
CS-T7	DOS prog software for IC-T7H .....	.99
CSW-32	DOS prog software for IC-W32A .Δ	9.99
OPC-474	Cloning cable W32A to W32A)	18.99
OPC-478	PC to radio cloning cbl;T7H/W32A	45.99
CSW-HH4	Windows prog soft/cbl; T7H/W32A	50.99
FA-1443B	Extra 2m/440 dual band duck .Δ	29.99
HM-46	Slim-line speaker/mic	45.99
HM-46L	Slim-line spkr/mic, rt angle plug	45.99
HM-54	Heavy duty spkr/mic	83.99
HM-75A	Remote control microphone	70.99
HM-128	Earphone+microphone	25.99
HS-10	Boom mic/headset	69.99
HS-10SA	VOX unit	69.99
HS-10SB	PTT switchbox	69.99
HS-85	Headset w/VOX	89.99
HS-94	Ear-pc headset; use w/VS-1	24.99
VS-1	VOX-PTT unit for HS-94	42.99
LC-125	Vinyl case; T22A w/BP170/171/172 D	4.99
LC-126	Vinyl case; T22A w/BP173	19.99
LC-128	Vinyl case; IC-W32A	38.99
LC-136	Vinyl case; T7H w/BP170/171/172	38.99
LC-137	Vinyl case; T7H w/BP173/180	38.99
MB-30	Mobile/wall bracket	41.99
NCP-1	Nylon chest pack	39.99
OPC-254	Mini DC power cable	14.99
OPC-254L	Right angle mini DC pwr cable	14.99
SP-13	Earphone	4.99
UT-94	Tone squelch unit; IC-T22A	29.99
IC-Q7ABC	350/300mw 2m/440 HT/batts/cgr ..	129.99
AD-92SMA	SMA- BNC adapter	16.99
BC-127A	Extra nicad charger	20.99
HM-46	Slim-line speaker/mic	45.99
HM-128	Earphone+microphone	25.99
HS-85	Headset w/VOX	89.99
SP-13	Earphone	4.99
OPC-782	Plug adapt cbl; HM46/HS85/SP13	16.99
LC-146	Carrying case	38.99
IC-T81A	5w 6m/2m/440/1w 1.2 HT/batt/cgr/TTP .†	279.99
AD-87	Batt pack adapter for rapid charger	8.99
AD-88	PCB board; orig BC-119-11	29.99
AD-92SMA	SMA- BNC adapter	16.99
BC-119-31	Nicad desk cgr (adapter required) D	99.99
BC-119-N21	Nicad/NiMH desk cgr (adapt required)	99.99
BP-197	3 AA battery case	24.99
BP-198	4.8v 700ma NiMH battery	59.99
BP-199	6v 700ma NiMH battery	70.99
BP-200L	9.6v 700ma NiMH battery	95.99
CP-12	Cig lighter cable w/filter	36.99
CP-12L	Right angle cig cable w/filter	36.99
CS-T81	Windows cloning software; IC-T81A	13.99
OPC-474	Cloning cable (radio to radio)	18.99
OPC-478	PC to radio cloning cable	45.99
CSW-HH4	Windows prog software/cable	50.99
HM-46	Slim-line speaker/mic	45.99

Icom - continued **AES Price**

HM-54	Heavy duty spkr/mic	83.99
HM-75A	Remote control microphone	70.99
HM-128	Earphone+microphone	25.99
HS-51	Headset w/VOX	96.99
HS-85	Headset w/VOX	89.99
HS-94	Ear-piece style headset; use w/VS-1	24.99
VS-1	VOX-PTT unit for HS-94	42.99
LC-148	Carrying case; IC-T81A	24.99
OPC-254	Mini DC power cable	14.99
OPC-254L	Right angle mini DC pwr cable	14.99
SP-13	Earphone	4.99
GST-8K	DOS prog software w/cable; IC-T8A/HP D	19.99
LC-147	Carrying case; IC-T8A/HP	9.99
Accessories for IC-2SAT/2SRA/24AT/W2A		
AH-20	Replacement rcv ant; IC-2SRA	\$ 24.99
BP-83	7.2v 600ma battery	79.99
BP-84	7.2v 1000ma battery	99.99
BP-90	AA alkaline battery case	35.99
IC-2GXA/HP	7w 2m HT/batt/cgr/TTP	249.99
AD-25	Battery charger adapter	49.99
AD-28	Batt pack adapter for rapid charger	18.99
BC-105A/BC-77	Extra wall charger	39.99
BC-119-11	Desk charger (adapter required) D	89.99
BC-119-N11	Nicad/NiMH desk cgr (adapt required)	89.99
BP-130A	Battery case	35.99
BP-157A	900ma 7.2v battery	85.99
BP-174	600ma 12v battery	98.99
CP-13	Cig cable w/filter	39.99
CP-13L	Right angle cig cable w/filter ....D	39.99
HM-46	Slim-line speaker/mic	45.99
HM-46L	Slim-line spkr/mic, rt angle plug	45.99
HM-54	Heavy duty spkr/mic	83.99
HM-128	Earphone+microphone	25.99
HS-51	Headset w/VOX	96.99
LC-116	Carrying case; BP-130A/157A/160 D	19.99
LC-117	Carrying case for BP-132A	19.99
MB-30	Mobile/wall bracket	41.99
OPC-288	Mini DC power cable	19.99
SP-13	Earphone	4.99
UT-49	DTMF decoder unit	69.99
AD-44	Batt adapter; rapid cgr; T21A .....	.99
LC-110	Vinyl case; BP-153; ICT21A .....	.99
LC-111	Vinyl case; BP-152; IC-T21A	2.99

ACCESSORIES

AG-25	2m mast mounted GaSFET preamp	\$189.99
AG-35	430 MHz mast mounted preamp	199.99
AG-1200	1.2 GHz mast mt preamp	159.99
CT-17	CI-V level converter	139.99
HM-12	Scan hand microphone	74.99
MB-23	Side mount carrying handle	15.99
OPC-137	Adapter cable; older Icom Xcvr ....D	19.99
PS-85	Power supply	249.99
SM-6	Electret desk microphone	119.99
SM-20	Deluxe desk microphone	219.99
SP-5	Mobile speaker	54.99
SP-7	Small external speaker	94.99
SP-10	Slim-line external speaker	69.99
SP-20	Speaker w/audio filter	249.99
SP-21	External speaker	119.99

CONSUMER ELECTRONICS

A-22	5w compact Navicom air handheld	\$399.99
GP-270ML	Fixed mt marine GPS w/keypad ...	399.99
IC-M1V	Waterproof 5w VHF marine handheld	249.99
IC-M3A	5w VHF marine handheld w/AA nicads	159.99
IC-M45AW	White 25w VHF marine Xcvr	149.99
IC-M402W02	White waterproof 25w VHF marine	199.99
M-710 (21)	150w HF marine SSB .spec order	1399.99
M-710-05 (22)	150w 1.6-27.5 SSB .spec order	1599.99
M-710RT-21	150w HF marine SSB spec order	1699.99
M-710RT-22	150w 1.6-27.5 SSB .spec order	1899.99

Icom - continued **AES Price**

AT-130	HF marine auto ant tuner spec order	449.99
IC-4008A	Family radio service black handheld	79.99
BC-127A	Charger for 2 or 4 AA nicads	20.99
BP-202	Nicad battery assembly	17.99
HM-46	Slim-line speaker/mic	45.99
HM-128	Earphone+microphone	25.99
HS-85	Headset w/VOX	89.99

IDIOM PRESS (IDI)

K-3	Logikey CW keyer	\$129.99
HK-3	Hook-up kit	10.99

International Ant (IAC)

160m double Bazooka 248'	antenna	\$214.99
80m double Bazooka 121'	antenna	150.99
40m double Bazooka 64'	antenna	126.99
160m-S	160m half sloper 127' antenna	140.99
80m-S	80m half sloper 67' antenna	115.99
40m-S	40m half sloper 33' antenna	69.99

ISOTRON (ISO)

160C	160m 9.5'x16"x15" 100 KHz bandwidth ant	\$173.99
80	80m 32"x16"x15" 110 KHz bandwidth ant	98.99
40	40m 22"x16"x15" 250 KHz bandwidth ant	88.99
20	20m 21"x8"x4" 350 KHz bandwidth ant	78.99
15	15m 21"x1.5"x4" 450 KHz bandwidth ant	78.99
10	10m 16"x1.5"x4" 1 MHz bandwidth ant	78.99
6	6m 16.5"x2"x4" 1.25 MHz bandwidth ant	78.99

80/40 Combo*	80/40m 32"x16"x30" ant .	169.99
20/15/10 Combo	20/15/20m combo ant	198.99

*Requires coaxial "T's" & jumpers - not included

K-COM (KCO)

RF-1	Modular telephone 3-30 MHz RFI filter .	\$ 16.99
RF-1/Low	Modular phone .5-3 MHz RFI filter	16.99
RF-1/2-line	2-line modular 3-30 MHz RFI filt	22.99
RF-1/coiled	Coiled cord modular 3-30MHz filt	22.99
RF-2	Hard-wired telephone 3-30 MHz RFI filt	10.99

KC Tracker (See GRACE)**KANTRONICS (KAN)**

Data Engine	TNC w/no modems	\$ 49.99
KPC-3 Plus/128K	Small packet TNC/128K RAM	186.99
KPC-9612 Plus/128K	9600 controller/128K ...	369.99
12VDC Adaptor	300ma adaptor; KPC-3	12.99
Host Master II+	IBM software	89.99
Superfax II	WX FAX program for IBM	59.99
128K	128K memory upgrade; KPC-3/9612 .Δ	14.99
KAM 98	Single port multi-mode dig controller	399.99
12VDC Adaptor	300ma adaptor; KAM 98	12.99
KAM XL	All mode TNC w/DSP modems	399.99
12VDC Adaptor	300ma adaptor; KAM XL	12.99
APRS adapter cable;	GPS to Kantronics TNC .	32.99

KENWOOD (KEN)

DRU-2	Dig recording unit; TS-950SDX	Δ \$139.99
SP-950	Ext spkr/audio filters; TS-950SDX	Δ 149.99
TS-B2000	PC cti HF/6m/2m/430 Xcvr/tuner .†	1799.99
TS-2000	HF/6m/2m/430 Xcvr/ant tuner†	*1759.99
*Price w/instant coupon; coupon expires 5/31/02		
*UT-20 1.2GHz module Kenwood install only		
TS-2000X	HF/6m/2m/430/1.2 Xcvr/tuner	*2399.99
*Price w/instant coupon; coupon expires 5/31/02		
KPS-15	23A switching ps w/fan, 25A surge	149.99
PS-53	Heavy duty 22.5A power supply	249.99
ARCP-2000	PC control soft (inc w/TS-B2000)	82.99
DRU-3A	Digital recording unit	129.99
MB-430	Mobile mounting bracket	49.99
MC-43S	Extra 8-pin hand mic w/up-down .	59.99
MC-52DM	Back-lit TTP hand mic	79.99
MC-60A	8-pin amp desk mic w/up-down ..	149.99
MC-80	8-pin electret desk mic w/up-down ..	109.99

Kenwood - continued AES Price

MC-90	2-head DSP desk microphone	239.99
PG-2Y	13' DC cable	39.99
PG-2Z	6.5' heavy duty DC cable	37.99
RC-2000	Remote faceplate mobile kit	349.99
SP-23	External speaker	89.99
VS-3	Voice synthesizer	39.99
TS-870S	9-band Xcvt/Rcvr/IFDSP/tuner	2299.99
KPS-15	23A switching ps w/fan, 25A surge	149.99
PS-52	Heavy duty power supply	269.99
DRU-3A	Digital recording unit	129.99
MC-43S	Extra 8-pin hand mic w/up-down	59.99
MC-60A	8-pin amp desk mic w/up-down	149.99
MC-80	8-pin electret desk mic w/up-down	109.99
MC-90	2-head DSP desk microphone	239.99
PG-2Y	13' DC cable	39.99
PG-2Z	6.5' heavy duty DC cable	37.99
SO-2	TCXO unit	179.99
SP-31	External speaker	99.99
VS-2	Voice synthesizer	69.99
TS-570D(G)	9-band Xcvt/Rcvr/AFDSP/tuner/mic	889.99
*Price w/instant coupon; coupon expires 5/31/02		
TS-570S(G)	9-band Xcvt/6m/Rcvr/AFDSP/tune/mic	1059.99
*Price w/instant coupon; coupon expires 5/31/02		
KPS-15	23A switching ps w/fan, 25A surge	149.99
PS-53	Heavy duty 22.5A power supply	249.99
DRU-3A	Digital recording unit	129.99
MB-430	Mobile mounting bracket	49.99
MC-43S	8-pin hand mic w/up-down	59.99
MC-60A	8-pin amp desk mic w/up-down	149.99
MC-80	8-pin electret desk mic w/up-down	109.99
MC-90	2-head DSP desk microphone	239.99
PG-2Y	13' DC cable	39.99
PG-2Z	6.5' heavy duty DC cable	37.99
SO-2	TCXO unit	179.99
SP-23	External speaker	89.99
VS-3	Voice synthesizer	39.99
YK-88C-1	500 Hz CW filter	129.99
YK-88CN-1	270 Hz CW filter	129.99
YK-88SN-1	1.8 KHz SSB filter	129.99
TS-50S	Compact HF Xcvt/SW Rcvr/mic/mt	689.99
KPS-15	23A switching ps w/fan, 25A surge	149.99
PS-53	Heavy duty 22.5A power supply	249.99
AT-50	External HF auto tuner	329.99
PG-4M	18' extension cable for AT-50	29.99
MB-13	Deluxe quick release mobile mt	55.99
MC-47	Extra multi-func 8-pin hand mic	59.99
MC-60A	8-pin amp desk mic w/up-down	149.99
MC-80	8-pin electret desk mic w/up-down	109.99
PG-2Y	13' DC cable	39.99
PG-2Z	6.5' heavy duty DC cable	37.99
SO-2	TCXO unit	179.99
SP-23	External speaker	89.99
TC-50/50Case	Travel case for TS-50S/60S	89.99
YK-107C	500 Hz CW filter	129.99
7-pin DIN plug		4.99
8-pin DIN plug		6.99
13-pin DIN plug		9.99
HS-5	Deluxe headphones	79.99
HS-6	Lightweight headphones	59.99
KPS-15	23A switching ps w/fan, 25A surge	149.99
LF-30A	1kw PEP low pass filter	64.99
MC-43S	8-pin hand mic w/up-down switch	59.99
MC-60A	8-pin amp desk mic w/up-down	149.99
MC-80	8-pin electret desk mic w/up-down	109.99
PG-3B	15A DC line noise filter	29.99
SP-50B	High quality external mobile speaker	55.99
TSU-5	Prog CTCSS decoder; TS-790A	64.99
TU-7	Prog encoder; 2550/751A/TW-4100A	54.99
TU-8	CTCSS tone unit; TS-450S/690S	54.99
UT-10	10w 1.2 GHz module; TS-790A	549.99
YG-455C-1	500 Hz CW filter; TS-450/690	149.99

Kenwood - continued AES Price

TM-642AD	50w 2m/25w 220FM/backlit TTP mic	739.99
TM-742AD	50w 2m/35w 440 FM/backlit TTP	639.99
DFK-3	9' separate display cable kit	26.99
DFK-4	13' remote cable kit	59.99
DFK-7	Deluxe 22' remote cable kit	89.99
MJ-88	Modular to 8-pin mic adapter	30.99
PG-2N	Extra DC cable	17.99
TSU-7	CTCSS decoder unit	59.99
UT-50S	50w 6m unit	329.99
UT-220S	25w 220 MHz unit	329.99
UT-440S	35w 440 MHz unit	299.99
UT-1200	10w 1.2 GHz unit	399.99
TM-6700A	50w 2m/35w 440 FM/1200/9600	599.99
MB-201	Extra mobile bracket	25.99
MJ-88	Modular to 8-pin mic adapter	30.99
PG-2N	Extra DC cable	17.99
PG-4X	13' extension cable kit	69.99
PG-5A	Packet data cable	15.99
VS-3	Voice synthesizer	39.99
TM-6707A	50w 2m/35w 440 FM/TTP mic	299.99
TM-77A	50w 2m/35w 440 FM Xcvt/TTP mic	419.99
DFK-3C	9' separate display cable kit	44.99
DFK-4C	13' remote cable kit	64.99
DFK-7C	Deluxe 23' remote cable kit	99.99
MB-201	Extra mobile bracket	25.99
MJ-88	Modular to 8-pin mic adapter	30.99
PG-2N	Extra DC cable	17.99
PG-4S	PC interface cable	32.99
PG-5A	Packet data cable	15.99
VS-3	Voice synthesizer	39.99
TM-331A	25w 220 FM Xcvt w/TTP mic	499.99
KQT-8/TSU-6	Prog CTCSS decoder	49.99
MB-201	Extra mobile bracket	25.99
PG-2N	Extra DC cable	17.99
TM-541A	10w 1.2 GHz FM Xcvt/TTP/encoder	449.99
DTU-2	Digital paging unit	14.99
KQT-8/TSU-6	Prog CTCSS decoder	49.99
MB-201	Extra mobile bracket	25.99
PG-2N	Extra DC cable	17.99
TM-261A	50w 2m FM Xcvt w/TTP mic	159.99
TM-461A	35w 440 FM Xcvt w/TTP mic	439.99
MB-201	Extra mobile bracket	25.99
PG-2N	Extra DC cable	17.99
TSU-8	CTCSS decoder	59.99
MC-52DM	Back-lit TTP mic; 241/331/441/541	79.99
MC-53DM	Back-lit TTP mic; 251/733/742/255/N7A	79.99
ME-1	Mem expansion; TH-28A/78A/TM-251A D	2.99
TH-22ATH	5w 2m FM HT/batt/cgr/TTP	219.99
TH-42AT	2.5w 440 FM HT/batt/cgr/TTP	219.99
BT-9	4-AA battery holder	29.99
EMC-3	Lapel clip mic/ear piece	29.99
HMC-3	VOX/boom mic headset	59.99
KSC-8A	Drop-in cgr; 25/26/75/77/22/42/79	26.99
KSC-14	2-pack rapid charger	87.99
PB-33	1200ma 6v battery	89.99
PB-34	600ma 9.6v (5w) battery	89.99
PG-2W	DC cable w/fuse	17.99
PG-3J	Cig lighter cord w/filter	36.99
SC-41	Soft case; TH-79A(D) w/PB-32	4.99
SC-43	Soft case; TH-79A(D) w/PB-33/34 D	4.99
SMC-32	Mini water resist rt angle spkr/mic	52.99
SMC-33	Speaker/mic w/remote control	65.99
SMC-34	Spkr/mic w/vol cont/function keys	39.99
TSU-8	CTCSS decoder; TH-22/42AT	59.99
WR-2	Water resistant bag; TH-22/42AT	29.99
TH-G71A	5w 2m/440 FM HT/batt/cgr/TTP	269.99
TH-D7A(G)	5w 2m/440 FM HT/1200/9600 TNC	429.99
BC-19	Rapid charger	64.99
BT-11	4-AA battery holder	17.99
EMC-3	Lapel clip mic/ear piece	29.99
HMC-3	VOX/boom mic headset	59.99

Kenwood - continued AES Price

J29-0631-13	Belt clip for batt; D7A/G71A	4.99
PB-38	650ma 6v battery	44.99
PB-39	600ma 9.6v (5w) battery	57.99
PG-2W	DC cable w/fuse	17.99
PG-3J	Cig lighter cord w/filter	36.99
PG-4P	Computer control cable; TH-G71A	32.99
PG-4V	VC-H1 connection cable TH-D7A(G)	49.99
PG-4W	PC software/cable; TH-D7A(G)	55.99
SC-45	Soft case for TH-G71A/PB-38/39	15.99
SC-47B	Black soft case for TH-D7A(G)	15.99
SC-470R	Orange soft case for TH-D7A(G)	15.99
SMC-32	Mini water resist rt angle spkr/mic	52.99
SMC-33	Speaker/mic w/remote control	65.99
SMC-34	Spkr/mic w/vol cont/function keys	39.99
WR-2	Water resistant bag; TH-G71A	29.99
TH-F6A	5w 2m/220/440 FM HT/lith ion batt	359.99
BT-13	AA battery case	25.99
EMC-3	Lapel clip mic/ear piece	29.99
HMC-3	VOX/boom mic headset	59.99
PB-42L	Extra lithium ion battery	79.99
PG-2W	DC cable w/fuse	17.99
PG-3J	Cig lighter cord w/filter	36.99
PG-4P	Computer control cable	32.99
SC-51	Soft case w/swivel belt clip	16.99
SMC-32	Mini water resist rt angle spkr/mic	52.99
SMC-33	Speaker/mic w/remote control	65.99
SMC-34	Spkr/mic w/vol cont/function keys	39.99
BT-10	6 AA alk batt case; TH-235A	2.99
VC-H1	Visual Communicator SSTV unit	399.99
E30-3352-08	16-pin DIN/unterminated cbl	44.99
E59-0407-08	16-pin DIN plug only	29.99
KCT-24S	VCH-1 to PC software/cable	58.99
PG-4T	VC-H1 to Kenwood FM mobile cable	49.99
SC-46P	Protective case	18.99
EK-AMA1	Portable emergency kit special order	5399.99

CONSUMER ELECTRONICS

TKM-707	150w HF marine SSB Xcvt spec order	1249.99
KAT-1	HF marine auto ant tuner spec order	569.99
UBZ-LH148K	Deluxe FRS black handheld	79.99
EMC-3	Lapel clip mic/ear piece	29.99
HMC-3	VOX/boom mic headset	59.99
SMC-34	Spkr/mic/vol cont/function keys	39.99
UBC-3	Nicad desk charger	14.99
UBC-4	Nicad desk charger	25.99
UPB-2	Nicad battery pack	24.99
USC-5B	Black nylon case	15.99
UBZ-AM148K	FRS black handheld pair	59.99

KOSS (KOS)

HD/33	Computer stereohead/vol control	4.99
KTX/2	Portable stereohead/adj headband	4.99
KTX/4	Collapsible stereohead w/vol control	14.99
QZ/99	Noise reduction stereohead w/mono sw	59.99
QZ/2000	Active noise reduction stereohead	179.99

LDG (LDG)

AT-11MP	160-10m auto antenna tuner	\$219.99
MP-Head	MP remote head	39.99
MP-AL-Cable	MP Alinco interface cable	5.99
MP-IC-Cable	MP Icom interface cable	5.99
RBA-1	Remote 4:1 balun; long/random/end fed	30.99
RT-11	160-6m remote auto antenna tuner	199.99
RT-Head	RT remote head	39.99
RT-AL-Cable	RT Alinco interface cable	15.99
RT-IC-Cable	RT Icom interface cable	15.99
RBA-1	Remote 4:1 balun; long/random/end fed	30.99
Z-11	30w QRP auto antenna tuner	169.99

LAKEVIEW (LAK)

9175	75m 7' Hamstick antenna	\$24.99
9140	40m 7' Hamstick antenna	24.99
9130	30m 7' Hamstick antenna	24.99

Lakeview - continued AES Price

9120 20m 7' Hamstick antenna	24.99
9117 17m 7' Hamstick antenna	24.99
9115 15m 7' Hamstick antenna	24.99
9112 12m 7' Hamstick antenna	24.99
9110 10m 7' Hamstick antenna	24.99
9106 6m 4.5' Hamstick antenna	24.99
901 Dipole mount for 2 Hamsticks	14.99
IM-1 Inducti-match for 75-12m mobile ant ..	17.99
TM-1 License plate mount, ¼-24	44.99
TM-1-Plus License plate mount, SO-239	44.99

LARSEN (LAR)

27-31 MHz ANTENNA

NMO-27B 10m black ant only (no mount)	\$ 36.99
NMO-27C 10m ant only (no mount)	33.99

47-54 MHz ANTENNA

NMO-50B 6m black ant only (no mount)	\$ 36.99
NMO-50C 6m ant only (no mount)	33.99

144-174 MHz ANTENNAS

NMO-150B 2m black ant only (no mt), 3 db ..	\$ 33.99
NMO-150C 2m ant only (no mount), 3 db	30.99

220-265 MHz ANTENNAS

NMO-220B 220 black ant only (no mt), 3 db ..	\$ 36.99
NMO-220C 220 ant only (no mount), 3 db	30.99

440-460 MHz ANTENNAS

NMO-440B 440 black ant only (no mt), 5 db ..	\$ 35.99
NMO-440C 440 ant only (no mount), 5 db	29.99

NM-2/70 2m/440 ¼ wave/2db mag mt ant ..	48.99
NMO-2/70B 2m/440 blk ant only (no mt), 2/4db ...	64.99

NMO-2/70C 2m/440 ant (no mount), 2/4db	59.99
NMO-2/70-SH 2m/440 ant (no mt), ¼ wv/2db ..	38.99

NMO-012 135-160/148-173 2.5db (no mt)	D 19.99
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NMOQ-Spec 136-512 MHz ¼ wave ant (no mt) ..	12.99
NMOQ-Spec-B 136-512 black ¼ wv ant (no mt) ..	15.99

NMOQ-Spec-K 136-512MHz ¼ wv ¾" hole ant ..	27.99
NMOQ-2/70-B 2m/440 ¼ wv cell look ant (no mt) ..	34.99

ON GLASS ANTENNAS

KG-144-UD-PL 2m 3 db on glass antenna ...	\$ 76.99
KG-220-UD-PL 220 3 db on glass antenna ..	76.99

KG-440-UD-PL 440 2.4 db on glass antenna ..	70.99
KG-2/70-CX-PL 2m/440 2.5/4.5db on glass ..	111.99

KG-Reinstall Reinstall kit for KG-ants	6.99
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KULDUCKIES - For Hand-helds

KD4-146 2m BNC Kulduckie	\$ 19.99
KD4-2/70 2m/440 BNC Kulduckie	33.99

KD4-222 220 BNC Kulduckie	19.99
KD14-445 440 ¼ wave BNC Kulduckie	18.99

KD4-146-HQ 2m part helical, part ¼ wave BNC ..	24.99
KD14-2M-HW 2m ½ wave BNC antenna	37.99

KD14-440-HW 440 ½ wave BNC antenna	37.99
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ACCESSORIES

BSA-K Base mtg kit; NMO/UHF mt mobile ant ..	\$ 50.99
NMO-B3B NMO mt hdw/A-7 NLA adapter	13.99

NMO-CAP-B Black rain cap for NMO mount ..	4.99
NMO-K ¾" hole mt w/coax for NMO ant	15.99

NMO-MM Magnet mt, coax for NMO ant	31.99
NMO-TLP Low profile tnk lid mt, coax; NMO ant ..	29.99

PO-K Roof mt, coax for SO-239 ant	27.99
PO-MM Magnet mt, coax for SO-239 ant	35.99

PO-TLM Trunk lip mt, coax for SO-239 ant ..	D 19.99
RG-SS Extra super seal NMO gaskets (3)	3.99

SPRING Shock spring	10.99
TMB-34 Trunk mtg bkt for NMO antenna	5.99

TMB-34B Black trunk mtg bkt for NMO ant ..	7.99
W-2/70B 2m/440 black replacement whip ...	24.99

W-490 49" replacement whip	9.99
W-490B Black 49" replacement whip	12.99

AES Price

LOGSAT (LOG)

Logsat Professional Satellite tracking CDROM \$ 69.99

M² (MSQ)

KT-36XA 20/15/10m 6el 32' boom beam	1373.99
40M-1LXD 6.9-10 MHz rotatable dipole	494.99

20M-4DX 20m 7.4db 4el 34' boom beam	582.99
17M-3DX 17m 6.3db 3el 18' boom beam	439.99

17M-5DX 17m 8.6db 5el 36' boom beam	582.99
15M-4DX 15m 8.5db 4el 33' 8" boom beam ..	494.99

12M-4DX 12m 8.6db 4el 27' boom beam	439.99
10M-4DX 10m 8.7db 4el 23' boom beam	439.99

6M-3 6m 50-50.6 or 51-54.6 4db 3el 6'9" bm beam	138.99
6M-5X Upgrade Kit; 6M-5 to 6M-5X	39.99

6M-5X 6m 50-50.5 or 51-54.9 4db 5el 18' bm beam	230.99
6M-7JHV 6m 50-50.4 10.9db 7el 30'8"bm beam	287.99

6M-2WLC 6m 49.7-50.5 11.9db 9el 39' 6" boom T*	507.99
6M-9KHW 6m 50-50.4 12.7db 9el 49' 4" bm beam	549.99

6M-HO-LOOP 6m 50-50.3 4.4db horiz loop ant	103.99
6" x 1/2" 3/8-24 mobile mast for loop	9.99

16" x 1/2" 3/8-24 mobile mast for loop	11.99
18" x 5/8" 3/8-24 mobile mast for loop	15.99

36" x 1/2" 3/8-24 mobile mast for loop	25.99
50" x 1/2" 3/8-24 mobile mast for loop	28.99

MAST BKT KIT For 6M-HO-LOOP	17.99
2M-4 2m 7.5db 4el 4' boom beam	103.99

2M-7 2m 10.3db 7el 8'10" boom beam	127.99
2M-9FM 2m 145-148 12db 9el 14' 6" bm beam	138.99

2M-9SSB 2m 144-146 12db 9el 14' 6" bm beam	138.99
2M-12 2m 12.8db 12el 19'6" boom beam	184.99

2M-5WL 2m 14.8db 17el 33' boom beam	230.99
2M-18XXX 2m 144-146 15.3db 18el 36'3" bm beam	264.99

2M-8WLHD 2m 144-144.7 17db 21el 55' bm beam	611.99
2M-12X 2m 10.3db 7h/7v 10'6"bm circ beam	195.99

2M-CP22 2m 12.5db 11h/11v 18'6"bm circ beam	264.99
PS-2M 2m polarity switch; circ pol beam ..	161.99

FG X-Boom Kit For circular antennas, etc.	149.99
2M-XP20 144-146 13.3db 10h/10v 21.5' bm cross pol	230.99

2M-XP28 144-146 15.1db 14h/14v 34.5'bm cross pol	318.99
2M5-440XP 2m/440 9/12db 5/10el 5'8" bm beam	184.99

2M-HO-LOOP 2m 144-144.5 4.86db horiz loop	47.99
6" x 1/2" 3/8-24 mobile mast for loop	9.99

16" x 1/2" 3/8-24 mobile mast for loop	11.99
18" x 5/8" 3/8-24 mobile mast for loop	15.99

36" x 1/2" 3/8-24 mobile mast for loop	25.99
50" x 1/2" 3/8-24 mobile mast for loop	28.99

Big-Foot 4x-mag mt; 2M-HO-LOOP stack/etc	109.99
MAG-KIT Magnet mt kit; single 2m-HO-LOOP	22.99

MAST BKT KIT For 2M-HO-LOOP	17.99
STACK-KIT Stack kit for 2m-HO-LOOP's	67.99

TOP BKT KIT For 2M-HO-LOOP	22.99
EB-144 2m Eggbeater omni/hor/rhc overhead D	149.99

RK-2M 2m 6db overhead reflector kit/base mt. Δ	43.99
EB-144/RK-2M 2m Eggbeater w/reflector kit	193.99

222-7EZ 220 9.8db 7el 5' 8" boom beam	103.99
222-10EZ 220 12db 10el 9' 9" boom beam ..	114.99

222-5WL 220 15.2db 15el 23'3" boom beam	184.99
222-7WL 220 16.4db 23el 32'5" boom beam	230.99

222-XP30 220 15.2db 15h/15v 24'3"bm cross pol	318.99
222-HO-LOOP 220-224 4.75db horiz loop ant ..	47.99

6" x 1/2" 3/8-24 mobile mast for loop	9.99
16" x 1/2" 3/8-24 mobile mast for loop	11.99

18" x 5/8" 3/8-24 mobile mast for loop	15.99
36" x 1/2" 3/8-24 mobile mast for loop	25.99

50" x 1/2" 3/8-24 mobile mast for loop	28.99
MAG-KIT Magnet mt kit; single 222-HO-LOOP	22.99

440-470-5W 440-470 7.8db 5el 2'2"bm beam	150.99
420-50-11 432 11.3db 11el 5' 5" bm rear mt beam	103.99

440-18 432 14.5db 18el 11'4" boom beam ..	138.99
440-21ATV 432 15.9db 21el 14'6" bm ATV beam	161.99

436-CP30 432 14.5db 15h/15v 9'9"bm circ beam	264.99
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M² - continued

436-CP42UG 432 16.8db 21h/21v 18'10"bm circ	310.99
PS-70CM 432 polarity switch; circ pol beam	161.99

FG X-Boom Kit For circular antennas, etc.	149.99
432-9WL 432 17.3db 28el 21' boom beam ...	195.99

432-13WLA 432 18.6db 38el 30'8" bm beam	264.99
432-HO-LOOP 430-436 5db horiz loop ant ...	47.99

6" x 1/2" 3/8-24 mobile mast for loop	9.99
16" x 1/2" 3/8-24 mobile mast for loop	11.99

18" x 5/8" 3/8-24 mobile mast for loop	15.99
36" x 1/2" 3/8-24 mobile mast for loop	25.99

50" x 1/2" 3/8-24 mobile mast for loop	28.99
Big-Foot 4x-mag mt; 432-HO-LOOP stack/etc	109.99

MAG-KIT Mag mt kit; single 432-HO-LOOP ..	22.99
STACK-KIT-70CM Stack kit; 2 432-HO-LOOP's	67.99

TOP BKT KIT For 432-HO-LOOP	22.99
EB-432 432 Eggbeater omni/hor/rhc overhead D	138.99

RK-70CM 432 6db overhead reflector kit/base mt. Δ	43.99
EB-432/RK-70CM 432 Eggbeater w/reflector kit	181.99

902-6W 900MHz 10db 6el 2' boom beam	68.99
902-10EZ 900MHz 12.6db 10el 3'5"bm beam	103.99

902-18EZ 900MHz 14.8db 18el 5'4"bm beam	150.99
902-14WLA 900MHz 18.8db 40el 15'4" bm beam	230.99

23CM-22EZA 1.2GHz 16db 22el 5'2" bm beam	138.99
23CM-35 1.2GHz 18.4db 35el 10' bm beam ..	172.99

2M-2-Port-PD 2m 2-port type N power divider	65.99
70CM-2-Port-PD 432 2-port N power divider	65.99

23CM-2-Port-PD 1.2GHz 2-port N power divider	65.99
FAST MAST 20' extended portable alum mast	183.99

OR-2800PDC 35 sq ft azimuth rotor/control/8-wire	1572.99
RC-2800PP Control box; prop pitch .spec order	549.99

*These items are drop-shipped (shipped direct to you from the M² factory). On these factory drop-shipments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Fresno, California via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. Please allow sufficient time for delivery on these special order items.

MFJ ANTENNA TUNERS (MFJ)

989C Dlx 3kw PEP w/roller inductor	\$319.99
986 3kw PEP w/roller inductor	299.99

962D 1.5kw PEP/meter/switch/balun/roller ind	249.99
969 HF & 6m 300w roller inductor tuner	189.99

949E 300w/PEP meter/dummy/switch/balun	139.99
948 300w/meter/switch/balun	119.99

941E 300w tuner w/meter, switch, balun	109.99
945E 300w tuner w/meter plus 6m	99.99

20 Mobile bracket for 945E	4.99
901B Versa Tuner 200w ant tuner	79.99

910 80-10m mobile antenna matcher	19.99
16010 200w random wire tuner	49.99

903 6m antenna tuner	49.99
906 6m antenna tuner w/wattmeter	79.99

914 Auto tuner extender	59.99
921 2m/220 300w PEP tuner/SWR/wattmeter	69.99

922 2m/440 150w tuner/SWR/wattmeter	79.99
924 440 MHz 300w PEP tuner/SWR/wattmeter	69.99

934 300w tuner w/artificial ground	169.99
940A 10m antenna tuner/SWR/wattmeter ..D	59.99

MEMORY KEYS

451 Dedicated CW keyboard w/memory	\$ 99.99
451X Morse keyboard interface only	Δ 64.99

452 CW keyboard/keyer w/disp/keyboard	129.99
452X CW keyboard/keyer w/disp, no keyboard	99.99

498 Dlx CW keyboard/keyer w/disp/keyboard	179.99
490 492 keyer/Bencher paddle combo	184.99

490X 492 keyer for use w/Bencher or 564	99.99
564 Deluxe iambic paddle for 490X	49.99

492 192 char menu driven memory keyer	89.99
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MFJ - continued

AES Price

78 Remote control for 492/492X	19.99
80 8000 char memory expansion for 492	14.99
493 32K char menu driven mem keyer	129.99
79 Remote control for 493	29.99
551 IBM AT-101 keyboard for 493	39.99
5409 9-pin serial port 6' cable for 493	12.99
5425 25-pin serial port 6' cable for 493	12.99

ELECTRONIC KEYS

4070 Deluxe electronic keyer	\$ 69.99
4010 Econo keyer	49.99

KEYER/PADDLES

4220 Keyer/Benchner paddle combination	\$154.99
4220X Keyer only	79.99
441 SlimLine econo keyer	59.99
442 SlimLine keyer/Benchner paddle combo	149.99
442X SlimLine keyer only	59.99
447 SlimLine deluxe keyer	79.99
564 Deluxe iambic chrome paddle	49.99
564B Deluxe iambic black paddle	49.99

COMPUTER INTERFACES

1224 Interface	\$ 99.99
1265 Disk software for VIC/C64; 1224 ....D	4.99
1285 Software for IBM; 1224	19.99
1270C Packet radio TNC2	119.99
47B Mailbox 128k memory; 1270/1274 ....Δ	39.99
47C Mailbox 512k memory; 1270/1274 ....Δ	69.99
1278B Multi-mode controller w/Pactor	279.99
1278B/DSP Controller w/Pactor & DSP	359.99
48 1278 upgrade	24.99
52 TNC2 deviation meter board	29.99
780 DSP data filter for 1278B	89.99
1282 C64 starter pack	D 4.99
1282BD Multicom 64 disk only	D 2.99
1284 5 1/4" IBM starter pack	D 14.99
1284D 1284 disk only	D 2.99
1284M 3 1/2" IBM starter pack	D 24.99
1284MD 1284M disk only	Δ 2.99
1284W MFJCOM for Windows	29.99
1287 Macintosh starter pack	D 4.99
1287B Mac multicom starter pack	Δ 19.99
1287BD 1287B disk only	Δ 2.99
1287D 1287 disk only	D .99
1288 Packet terminal program	D .99
1289 5 1/4" multicom software for IBM ....D	19.99
1289D 1289 disks only	D 2.99
1289M 3 1/2" multicom software for IBM ....D	59.99
1289MD 1289M disks only	Δ 19.99
1289W Multicom for Windows with cable ..	59.99
1289WD Multicom for Windows, less cable ..	49.99
1214PC Multimode interface for IBM	139.99

40B TNC2 upgrade 32K/RAM .....	.99
43 Real time clock for TNC	19.99
44 Plug-in scope tuning adapter	D 11.99
781 DSP filter for any TNC or controller	119.99
1272B TNC to microphone interface	39.99
1272BYH TNC/mic switch; KAM HF	39.99
1272BYV TNC/mic switch; KAM VHF	39.99
1272M TNC/mic RJ-45 switch; MFJ/PK-900 ..	39.99
1272MYH TNC/mic RJ-45 switch; KAM HF ....Δ	24.99
1272MYV TNC/mic RJ-45 sw; KAM VHF; KPC3	39.99

SSB/CW FILTERS

722 SSB/CW notch filter	\$ 49.99
751B Super tunable CW audio filter	69.99
752C Dual tunable SSB/CW filter	89.99
784B Deluxe tuneable DSP filter	229.99
5184 Cable pack for 784B	7.99

PHONE PATCH

624D Phone patch w/audio VU meter	\$119.99
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DUMMY LOADS

250 2kw PEP dummy load w/oil	\$ 59.99
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MFJ - continued

AES Price

250X 2kw PEP dummy load, less oil	39.99
21 1 gal industrial xfmr oil for wet dummy	24.99
260C 300w 0-650 MHz dry dummy load	34.99
260CN 300w 0-650 MHz type N dry dummy ..	39.99
264 1.5kw 0-650 MHz dry dummy load	69.99
264N 1.5kw 0-650 MHz type N dry dummy ...	79.99

SWR/WATTMETERS

812B 144-220 MHz SWR/FS/wattmeter	\$ 34.99
815B 160-6m cross-needle SWR/wattmeter ..	79.99
816 1.8-30 MHz toroidal SWR/wattmeter	34.99
817 2m/440 cross needle meter	89.99
840 2m 5w wattmeter/dummy load for HT ....Δ	9.99
841 2m 5w in-line HT wattmeter/SWR	39.99
844 Compact 2m/440 SWR/wattmeter	69.99
860 1.8-60 MHz cross-needle meter	44.99
862 2m/220/440 cross-needle meter	54.99
864 1.8-60MHz/2m/440 cross needle meter ..	84.99
870 1.6-60MHz Grandmaster SWR/wattmeter ..	124.99
872 1.8-200MHz Grandmaster SWR/wattmeter ..	94.99
873 125-525MHz Grandmaster SWR/wattmeter ..	104.99
874 1.8-525MHz Grandmaster SWR/wattmeter ..	159.99

SHORTWAVE ACCESSORIES

306 Car radio SWL converter	\$ 89.99
956 LW/MW/SW preselector/tuner	49.99
959C SW receiver ant tuner w/preamp	99.99
1020C 3-30 MHz indoor active receive ant ..	79.99
1022 300KHz-200MHz active rcv antenna	49.99
1024 .05-30 MHz outdoor active rcv ant	129.99
1040B Deluxe receiver preselector	99.99
1045C Receiver preselector	69.99

BOOKS

30 Golden Classics book	\$ 9.95
31 Oscar book	Δ 2.99
32 Packet Made Easy book	9.95
33 Mobile Handbook book	12.95
35 World of Ham Radio book	Δ 3.99
36 Shortwave Listeners Guide; Apts/Condos ..	9.95
37 Ham Communications Circuit Files book ..	9.95
38 Easy-up Antennas book	16.95
3036 The Packet Radio Operators book	12.95
3101 Fox Hunt Adventure book	7.95
3211 Technician license guide	9.95
3213 General license guide	9.95
3215 Extra license guide	9.95
3301 Troubleshooting Antenna & Feedlines book	12.95
3302 73 Dipole and Long-Wire Antennas	12.95
3303 73 Vertical, Beam, and Triangle Ants ...	12.95
3305 Antennas & Transmission Lines book ...	19.95
3400 Morse Code: Breaking the Barrier	19.95
3502 Solid State QRP Projects	12.95
3504 FET Principles, Experiments & Projects ..	16.95
3506 Ferromagnetic-Core Design book	19.95
3507 Practical RF Design Manual	19.95
3508 Radio Components Handbook	D 9.99
3509 Ladder Crystal Filters	19.95

CLOCKS

105C 24-hour quartz wall clock	\$ 19.99
107B 24-hour digital clock	9.99
108B 24/12-hour dual disp digital clock	19.99
112B Deluxe world map clock	24.99
114B Giant LED desk/wall 12/24-hr clock ....D	44.99
113 24/12-hr 1.8" LED clock/batt back-up ...	19.99
115 DX'er 24-hour analog world wall clock ..	24.99
116DC 12-hour 12vdc LED clock	Δ 9.99
118 Giant 24/12 hour LCD clock	24.99
119B Giant 24/12 hour LCD/in temp clock ....D	24.99
123 Eternity solar atomic clock	79.99
125 Calendar 24-hour analog wall clock	29.99
126 Multi-color 12-hr quartz wall/24-hr trim Δ	19.99
128 12/24 hour analog atomic wall clock ....D	59.99
132AT 12-hour LCD see-thru clock	Δ 14.99

MFJ - continued

AES Price

134AT 24-hour LCD see-thru clock	Δ 14.99
152B Thermo clock; in/out temp/12/24-hr clock	24.99

ANTENNAS

343 1 1/4" hole mount for 3/8-24 whip	\$ 9.99
1402 2m/440 0/3db 16.5" 100w ant only	34.99
1412 2m/440 3/5.5db 40" 200w ant only	49.99
1422 2m/440 3.2/5.7db 41.5" 150w ant only ..	49.99
1432 2m/440 5/7.6db 62.5" 150w ant only ..	69.99
1436 6m/2m/440 2.15/4.5/7.2db 59" ant only	79.99
333BM 3.5" HiFlux NMO mag mt; not 1436	14.99
333BS 3.5" HiFlux SO-239 magt mt not 1436 ..	14.99
335BM 5" HiFlux NMO mag mt; not 1436 ..	19.99
335BS 5" HiFlux SO-239 magt mt not 1436 ..	19.99
340 Mirror/luggage pipe clamp mount	34.99
345 Trunk/hatchback lip mount	34.99
1516 2m 15' vertical base antenna	94.99
1621 40-10m 54" portable ant w/tuner	89.99
1622 40-2m apartment antenna	89.99
1624 40-6m mini bugcatcher antenna	79.99
1710 2m 3/4 wave telescopic antenna	9.99
1712 2m/440 telescopic antenna	14.99
1713 2m/440 SuperFlex Thin Duk HT ant	19.99
1713S 2m/440 SuperFlex SMA Thin Duk ant ..	19.99
1714 2m 1/2 wave telescopic antenna	16.99
1715 2m/440 SuperFlex gain Thin Duk HT ant	24.99
1715S 2m/440 SuperFlex gain SMA Thin Duk ..	24.99
1716 2m/440 duck for HT	16.99
1716S 2m/440 SMA duck for HT	16.99
1717 2m/2.15db 440 duck for HT	21.99
1717PL 2m/440 foldover flexi-duck, PL-259 ..	24.99
1717S 2m/2.15db 440 SMA duck for HT	21.99
1719 2m/440/1.2GHz Midget Duck	19.99
1719S 2m/440/1.2GHz SMA Midget Duck	19.99
1720S 6m/2m/440 SMA Duck	29.99
1721 2m HT UltraLite mag mt antenna	14.99
1722 2m/440 HT UltraLite mag mt antenna ..	18.99
1724B 2m/440 magnet mt antenna	16.99
1727 10m magnet mt antenna	39.99
1728B 6m 1/4 wv/2m 1/2 wv mag ant/PL259/BNC	29.99
1729 2m/440 magnet mt antenna	34.99
1730 2m pocket roll-up vertical antenna	19.99
1734 2m/440 2.6/6.3db glass mt antenna ...	39.99
1736 6m J-Pole travel antenna	29.99
1738 2m 2.6db glass mt antenna	29.99
94 Remount kit for 1734/1738	4.99
1740 2m 1/4 wave ground plane ant	19.99
1750 2m 3/4 wave ground plane ant	24.99
1752 220 3/4 wave ground plane ant	24.99
1754 2m/440 ground plane antenna	29.99
1756 6m DX vertical antenna	79.99
1762 6m 6db 3 el 6' boom beam	79.99
1763 2m 3el portable beam	44.99
1764 2 & 6m dual 3/4 super gain base ant ...	49.99
1768 2m/440 4/7 el beam antenna	79.99
1778 G5RV 160-10m 102' ant (needs tuner)	39.99
1786 Super Hi-Q 10-30 MHz loop/dlx control ...	349.99
1788 Super Hi-Q 40-15m loop/dlx controller ...	389.99
1796 40/20/15/10/6/2m 10' vertical ant	189.99
1798 80/40/30/20/17/15/12/10/6/2m 20' vert	269.99
1816 2m/440 8.5" flexible/telescopic duck Δ	9.99
1817 2m/440 14.5" flexible/tele duck	D 19.99
1828B Magnet mt BNC scanner antenna ....D	4.99
1899T 80-6m telescopic antenna for FT-817	129.99
1910 33' telescoping fiberglass mast	79.99

CABLES

5020 MFJ TNC - Yae FT50R/compat	\$ 15.99
5020YV KAM VHF/KPC3 - Yae FT50R/compat ..	15.99
5022 MFJ TNC - Alinco/Standard HT cable	15.99
5022YV KAM VHF/KPC3 - Ali/Sta HT cable	15.99
5024 MFJ TNC - Ico/Yae/Al/RS HT cable	15.99
5024B PK/PacComm/compat - Ico/Yae/RS	15.99

MFJ - continued**AES Price**

5024YV	KAM VHF/KPC3 - Ico/Yae/Al/RS HT	15.99
5026	MFJ TNC - Kenwood HT cable	15.99
5026YV	KAM VHF/KPC3 - Kenwood HT cable	15.99
5060	MFJ TNC - Ken/Yae acc 6-pin mini DIN	19.99
5060YQ	KPC9612 - Ken/Yae acc 6pin mini DIN	19.99
5065YV	KAM VHF/KPC3 - Ke/Ya acc 6pin mini DIN	19.99
5063	MFJ TNC - Icom HF acc 8-pin DIN	19.99
5063YH	KAM HF - Icom HF acc 8-pin DIN	19.99
5064	MFJ TNC - Icom VHF acc 8-pin DIN	19.99
5064YQ	KPC9612 - Icom VHF acc 8-pin DIN	6.99
5064YV	KAM VHF/KPC3 - Ico VHF acc 8pin DIN	6.99
5065	MFJ TNC - Ico IC-706 acc 13-pin DIN	19.99
5065YH	KAM HF - Ico IC-706 acc 13-pin DIN	19.99
5065YV	KAM VHF - Ico IC706 acc 13-pin DIN	19.99
5066	MFJ TNC - Kenwood HF acc 13-pin DIN	19.99
5066YH	KAM HF - Ken HF acc 13-pin DIN	19.99
5080	MFJ TNC - Yaesu 8-pin cable	15.99
5080M	MFJ TNC - Yaesu 8-pin modular	15.99
5080MYV	KAM VHF/KPC3 - Yae 2500M/7400H	15.99
5080YH	KAM HF port - Yaesu 8-pin cable	15.99
5080YV	KAM VHF/KPC3 - Yaesu 8-pin cable	15.99
5082	Open end - 8-pin mic cable	9.99
5084	MFJ TNC - Icom 8-pin cable	15.99
5084M	MFJ TNC - Icom 8-pin modular	15.99
5084MYV	KAM VHF/KPC3 - Icom 8-pin mod	15.99
5084YH	KAM HF port - Icom 8-pin cable	15.99
5084YV	KAM VHF/KPC3 - Icom 8-pin cable	15.99
5086	MFJ TNC - Kenwood/Alinco 8-pin cable	15.99
5086M	MFJ TNC - Kenwood 8-pin modular	15.99
5086MYV	KAM VHF/KPC3 - Ken 8-pin mod	15.99
5086YH	KAM HF port - Ken/Al/ 8-pin cable	15.99
5086YV	KAM VHF/KPC3 - Ken/Al/ 8-pin cable	15.99
5088M	MFJ TNC - Radio Shack 8-pin modular	15.99
5205	5-pin DIN open end cable	4.99
5208	Open end - Ico HF/VHF acc 8-pin DIN	9.99
5213	Open end - Kenwood acc 13-pin DIN	9.99
5220R/5220	Open end - Yae FT50R/compat	9.99
5222	Open end - Ali split HT cable	9.99
5224	Open end - Ico/Yae/Al/RS HT cable	9.99
5268	Open end - modular phone plug cable	9.99
5412	IBM printer cable	9.99
5413	RS-232 6' cable DB-25M-25F	2.99
5414	RS-232 6' cable DB-25M-9F	9.99
5803/10	3' coax jumper cable	5.99

RADIOS/TRANSCIVERS

8100K	Shortwave regenerative Rcvr kit	\$ 69.99
8100W	Shortwave regenerative Rcvr wired	89.99
8121	AM/FM/shortwave portable receiver	39.99
8400K	2m receiver kit	29.99
8400W	2m receiver wired	49.99
8621	5w 2m data radio w/145.01 MHz	139.99
8621X2	5w APRS ready 2m data radio/144.39	149.99
4110	Portable AC power supply	49.99
5100	Data radio cable - MFJ/TAPR	15.99
5100YH	Data radio cable - KPC-9612	3.99
5100YV	Data radio cable - KAM/KPC-3	15.99
5106	Open end - 6pin mini Ken/Yae cable	4.99
9015	5w 15m CW Xcvr	169.99
9020	5w 20m CW Xcvr	169.99
9030	5w 30m CW Xcvr	169.99
9040	5w 40m CW Xcvr	169.99
27	Handle for CW station	4.99
412	Plug-in Curtis keyer	49.99
726	Plug-in audio filter	29.99
971	200w portable ant tuner w/meter	99.99
1770	Portable 15m dipole	29.99
1771	Portable 17m dipole	29.99
1772	Portable 20m dipole	39.99
1773	Portable 30m dipole	19.99
1774	Portable 40m dipole	39.99
4110	Portable AC power supply	49.99

MFJ - continued**AES Price**

4114	Rechargeable power pack	69.99
9115B	9015 Xcvr/tuner/ps/ant package	249.99
9117B	9017 Xcvr/tuner/ps/ant package	229.99
9120B	9020 Xcvr/tuner/ps/ant package	269.99
9130B	9030 Xcvr/tuner/ps/ant package	329.99
9140B	9040 Xcvr/tuner/ps/ant package	329.99
9402X	7w PEP 2m SSB Xcvr w/mic	269.99
9406X	10w PEP 6m SSB Xcvr w/mic	249.99
9410X	20w PEP 10m SSB Xcvr w/mic	249.99
9420X	12w 20m SSB Xcvr w/mic	229.99
9440X	12w 40m SSB Xcvr w/mic	229.99
9475X	12w 75m SSB Xcvr w/mic	229.99
415B	SSB Xcvr CW adapter; 9420X/9440X	49.99
416	CW adapter for 9402X/9406X/9410X	49.99
971	200w HF portable ant tuner w/meter	99.99
1770A	10m dipole for 9410X	39.99
4110	Portable AC power supply	49.99
4114	Rechargeable power pack	69.99

ACCESSORIES

1305	5vdc 300ma adapter	\$ 6.99
1306	6v 300ma adapter	14.99
1312	12vdc 300ma adapter, 2.5mm plug	14.99
1312B	12vdc 300ma adapter, 2.1mm plug	14.99
1312C	12vdc 300ma adapter, 2.5mm coaxial D	14.99
1315	12vdc 500ma adapter	14.99
1316	12vdc 1.5A adapter	19.99
15	HamGear belt loop radio holder	14.99
18	HamGear chest harness/cargo pocket	29.99
76	1266/67 interface brd; kyr/keyboard	.19
92AA01	1300ma AA NiMH cell	2.99
92AA10	10-pack 1300ma AA NiMH cells	24.99
201	1.5-250 MHz dip meter	109.99
202B	RF noise bridge	59.99
203	160-10m bandswitched dip meter	49.99
204B	HF Antenna bridge	79.99
206	Antenna current probe	49.99
207	160-10m SWR analyzer	79.99
208	2m SWR analyzer	79.99
209	1.8-170 MHz SWR analyzer	129.99
212	MatchMaker tune up device	79.99
218	SWR analyzer, 150-170 MHz	29.99
219B	SWR analyzer, 440 MHz/N/SO-239 adapt	89.99
224	2m FM signal analyzer	149.99
249B	1.8-170 MHz SWR analy/LCD counter	219.99
259B	1.8-170 MHz SWR analy/RF res meter	239.99
269	1.8-170+440 MHz SWR analy/RF res mtr	319.99
29C	Carrying case w/window; 209/249B/259B	24.99
39C	Carrying case w/window; 269	24.99
66	1.8-30/30-170 dip coils; 209/249B/259B	19.99
92AA10	10-pack 1300ma AA NiMH cells	24.99
98	Package of 39C/66/1315 for 269	54.99
98B	Pack of 92AA10/39C/66/1315 for 269	77.99
99	Pack of 29C/66/1315; 209/249B/259B	54.99
99B	Pack; 92AA10/29C/66/1315; 209/249B/259B	77.99
99C	Pack - 92AA10/1315; 209/249B/259B/269	34.99
731	RFI filter for SWR analyzer	89.99
1315	12vdc 500ma ps for SWR analyzers	14.99
270	Guardian Angel 400w PEP lightning protect	29.99
97	Gas tube plug for 270	9.99
281	ClearTone communications speaker	12.99
285W(C)	Mini spkr/mic; Alinco credit card HTs	17.99
2881	Headset/mic; Icom/ADI/Sta/RS/older Yae	24.99
288K	Headset/mic for Kenwood	24.99
288Y	Headset/mic; Ico Q7/Yae FT10/50/VX1	24.99
291K	Earphone for Kenwood spkr/mic	2.99
2921	Earph/mic; Ico/older Yae/compatibles	17.99
292Y	Earphone/mic; Ico Q7/Yae FT10/50/VX1	17.99
2931	Rubber flex earloop earbud/mic; Icom	24.99
293K	Rubber flex earloop earbud/mic; Kenwood	24.99
293Y	Rubber flex earloop earbud/mic; Yaesu	24.99
2951	Mini spkr/mic; Icom & compatible HT	15.99

MFJ - continued**AES Price**

295K	Mini spkr/mic; Kenwood & compatible HT	15.99
295Y	Mini spkr/mic; Ico Q7/Yae FT10/50/VX1	15.99
297	Desk mic with flexible boom	69.99
5082	Open end - 8-pin mic cable for 297	9.99
5268	Open end - mod phone plug cbl; 297	9.99
5397I	Cable/8-pin for 297; Icom HF	15.99
5397K	Cable/8-pin for 297; Kenwood HF	15.99
5397Y	Cable/8-pin for 297; Yaesu HF	15.99
5397MI	Cable/modular for 297; Icom VHF	9.99
5397MX	Cable/modular for 297; Icom/Kenwood	15.99
5397MY	Cable/modular for 297; Yaesu	15.99
310	BNC HT antenna window mount clip	14.99
341M	17' antenna cable; NMO	19.99
341S	17' antenna cable; SO-239	19.99
382	Deluxe amplified communications spkr	39.99
384	Dlx amp spkr w/speech control knob	29.99
1306	6v 300ma adapter for 384 only	14.99
388	Cyber Ear 12db ear amplifier	29.99
392	Deluxe communication headphones	19.99
394	Boom mic/single headphone	59.99
5396I	Adapter; 394/396 with Ico Xcvr	9.99
5396K	Adapter; 394/396 with Ken Xcvr	9.99
5396Y	Adapter; 394/396 with Yae Xcvr	9.99
414	Professional Morse Tutor w/LCD	189.99
417	Code Tutor with QSO	59.99
418	Code Tutor with LCD display	79.99
434	Deluxe Voice Memory Keyer	169.99
73	Remote control head w/cable for 434	29.99
461	Pocket size Morse code reader	79.99
5161	DB-9 PC serial port cable	14.99
5162	Cable for radio external speaker	4.99
462B	RTTY/ASCII/CW/AMTOR Rcvr multi-reader	169.99
5162	Cable for radio external speaker	4.99
550	Hand key	7.99
552	CW interface for 2m HT	29.99
554	Deluxe CW practice oscillator	79.99
557	Code oscillator w/key	29.99
616	Speech intelligibility enhancer	159.99
1316	12vdc 1.5A adapter	19.99
281	ClearTone speaker (requires 2)	12.99
392	Deluxe communication headphones	19.99
631	Trickle wall charger; NiMH/nicad AA	9.99
632	Rapid charger; NiMH/nicad AA/AAA	19.99
641-I2	Battery charger; Icom BP-131/132	19.99
10-BCI-2	Charger cup; Icom BP-131/132	.99
10-BCI-3	Charger cup; Icom BP-173/180	.99
10-BCY-2	Cgr cup; Yae FNB10/11/12/17/27	.99
641-Y3	Battery charger; Yaesu FNB-31/33	19.99
10-BCY-3	Charger cup; Yae FNB-31/33	.99
662	Simplex pocket repeater	79.99
701	Toroid RFI filters	pack of 4 14.99
704	1kw low-pass filter	49.99
711	High pass filter	24.99
713	2m HT intermod filter	39.99
762	18db 170MHz BNC attenuator	69.99
801	Super compact field strength meter	19.99
802	Bipolar field strength meter	39.99
802R	Field strength remote meter	24.99
802X	Field strength/remote meter combo	59.99
805	RFI current detector meter	79.99
850	AC line voltage monitor	19.99
852	Power line noise current meter	89.99
854	HF RF current meter	89.99
886	1MHz - 3GHz Pocket frequency counter	109.99
912	W9INN remote balun	49.99
916	2m/440 duplexer	29.99
931	Artificial ground unit	89.99
1025	Noise canceling antenna	149.99
1026	Deluxe noise canceling unit w/antenna	169.99
1046	1.6-33MHz receiver passive preselector	89.99
1048	1.6-33MHz Xcvr passive preselector	109.99
1112	Multiple DC outlet	34.99

MFJ - continued

	AES Price
1116 Dlx multiple DC outlet	49.99
1117 High current multiple DC outlet	54.99
1118 Dlx high current multiple DC outlet	74.99
1213 Interface for JVFAX/HamComm	49.99
1262 Microphone switch; 8-pin round	79.99
1268 IBM PC memory keyer	Δ 9.99
1269 IBM code tutor	D 9.99
1275 Soundcard/rig interface/software; 8P-R	89.99
1275M Soundcard/rig interface/software; 8P-M	89.99
1281 IBM Easy-DX logging program	D 9.99
1292 Video digitizer for IBM	Δ 19.99
1680Y Windows software package; Yaesu	D 4.99
1682 Packet Windows software	D 2.99
1683I Rig Windows software for Icom	D 4.99
1683K Rig Windows software for Kenwood	D 4.99
1683Y Rig Windows software for Yaesu	D 4.99
5383YB Yaesu interface cbl, mini 6-pin DIN Δ	9.99
1700B Combination ant/xmtr switch	79.99
1701 6-position coax switch	49.99
1702C 2-pos coax switch/lightning protect ..	24.99
1702CN 2-pos 1.1GHz N switch/lightning protect ..	34.99
1704 4-pos 500 MHz switch/lightning protect ..	64.99
1704N 4-position type N switch	74.99
4035MV Dlx 30A adjustable ps, 35A surge ...	139.99
4103 Switching power supply for Yaesu FT-817 ..	39.99
4125MV MightyLite 22A 3.5 lb switch ps, 25A surge ..	99.99
4225MV MightyLite 22A switching ps, 25A surge ..	139.99
4245MV MightyLite 40A switching ps, 45A surge ..	189.99

MG Electronics (MGE)

HFS-1 10w mobile spkr, 3.5mm plug	D \$ 9.99
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MAGELLAN (MAG)

GPS-310 12 ch GPS receiver	\$ 99.99
GPS-315* 12 ch GPS receiver	149.99

*\$20 consumer rebate from Magellan thru 6/30/02

GPS-320 12 ch GPS receiver	169.99
730275 External power cable w/cig adapter ..	17.99
730277 PC cable/cig adapt; GPS-315/320 ..	39.99
00-09018-000 PC ext pwr cig cbl; 2000XL ..	D 1.99
00-69007-000 Ext pwr/data module; 2000XL ..	D 9.99
00-19044-000 Lo prof ext ant; Tracker/ColorTrak Δ ..	49.99
00-19060-000 Pwr/data cbl; Tracker/ColorTrak Δ ..	9.99
00-19067-000 PC cbl/cig adapt; Tracker/ColorTrak Δ ..	19.99

MAP-330* 12 ch GPS receiver/8mb base map

*\$30 consumer rebate from Magellan thru 6/30/02

730275 External power cable w/cig adapter ..	17.99
730277 PC cable/cig adapter	39.99
980611 MapSend Topo CD-ROM	99.99
Meridian GPS GPS with 2MB base map	219.99
Meridian Gold GPS with 16MB base map	299.99
Meridian Platinum GPS/16MB/compass/barometric ..	349.99
Meridian XL GPS/plotter/detachable ant/case D ..	129.99
980611 MapSend Topo CD-ROM	99.99

MAHA (MAH)

9V 8.4v 170ma 9v size NiMH batt cell	ea \$ 8.99
AAA-T 1.2v 650ma AAA size NiMH batt cell ea ..	2.99
AA-FB 1.2v 1400ma AA NiMH batt w/tabs D,ea ..	2.99
AA-160 1.2v 1600ma AA size NiMH batt cell ea ..	3.99
C-380 1.2v 3800ma C size NiMH batt cell D,ea ..	6.99
D-800 1.2v 8000ma D size NiMH batt cell D,ea ..	12.99
MH-2A4 Slow charger for 4 max AA NiMH ...D ..	3.99
MH-C124S Reg cgr; 1-4 AA/AAA NiMH/NiCD ..	9.99
MH-C204F Quik cgr/condi; 2/4 AA/AAA NiMH/NiCD ...	24.99
MHS-DC-124 Cig adapter; MH-C124S/C204F ..	5.99
MH-BP-7 1000ma 13.2v lcom nickel hydride ..	69.99
MH-BP-8 1200ma 8.4v lcom nickel hydride ..	59.99
MH-BP-8H 1800ma 8.4v lcom nickel hydride ..	69.99
MH-BP-83 1300ma 7.2v lcom nickel hydride ..	49.99
MH-BP-132B 1300ma 12v lco blk nick hyd/mic ..	59.99
MH-BP-132G 1300ma 12v lco gray nick hyd/mic ..	59.99

Maha - continued

	AES Price
MH-BP-173 650ma 9.6v lcom nickel hydride ..	69.99
MH-BP-180 1000ma 7.2v lcom nickel hydride ..	49.99
MH-BP-196M 1350ma 9.6v lcom nick hydride ..	49.99
MH-BP-199 700ma 6v lcom nick hydride/clip ..	55.99
MH-BP-200 680ma 9.6v lcom nick hydride/clip ..	59.99
MH-CNB-152 1000ma 12v Sta nickel hydride ..	59.99
MH-CNB-153 1300ma 7.2v Sta nickel hydride ..	49.99
MH-FNB-12 1000ma 12v Yaesu nickel hydride ..	59.99
MH-FNB-17 1000ma 7.2v Yaesu nickel hydride ..	49.99
MH-FNB-27 1000ma 12v Yaesu nickel hydride ..	59.99
MH-FNB-31 650ma 4.8v Yaesu nickel hydride ..	49.99
MH-FNB-38 650ma 9.6v Yaesu nickel hydride ..	59.99
MH-FNB-40H 650ma 7.2v Yae nick hyd/ spg clip ..	59.99
MH-FNB-41 1000ma 9.6v Yae nick hyd/spg clip ..	55.99
MH-FNB-V47 1800ma 7.2v Yae nick hyd/spg clip ..	69.99
MH-FNB-V57 1500ma 7.2v Yaesu nickel hydride ..	49.99
MH-FNB-72 1700ma 9.6v Yaesu nickel hydride ..	59.99
V47 Belt Clip Spring loaded belt clip for Yae Δ ..	3.99
MH-PB-8 1300ma 12v Kenwood nickel hydride ..	62.99
MH-PB-17 1300ma 12v Kenwood nickel hydride ..	69.99
MH-PB-18 1300ma 7.2v Ken nick hyd; wall cgr only ..	49.99
MH-PB-32 1000ma 6v Kenwood nickel hydride ..	47.99
MH-PB-34 1000ma 9.6v Kenwood nickel hydride ..	57.99
MH-PB-39 1050 ma 9.6v Ken nickel hyd/clip ...	59.99
MH-PB-39H 1800ma 6v Ken nickel hyd/clip	59.99
MH-C777 Univ cgr/conditioner/cig cord; nicad/nimh ..	49.99
MHS-CW4 Clip-leads for external charging ..	3.99
MH-C777 Plus Univ cgr/analy/cig cord; lith/nicad/nimh ..	89.99
MH-C888 Univ drop-in rapid cgr/cond; nicad/nimh ..	59.99
MHS-C800U External charger pin shell	14.99
MHS-C801 Cup; T2/W32/TH22/79/FT10/50 ..	7.99
MHS-C802 Cup; IC02AT/TH78/FT470/530 ..	7.99
MHS-C803 Cup; Kenwood TH-D7A/G71A	7.99
MHS-C804 Cup; Icom IC-T8A/T81A	7.99
MHS-C805 Cup; Yaesu FT-11/41/51R	7.99
MHS-C806 Cup; Ali 195/580/FL/G5/V5/etc ..	7.99
MHS-DC-777 Cig lighter cord	5.99
MH-101-11 Cgr; lco 157/160/174/131/2/Mah 132B/G D ..	19.99
MH-101-Y1 Cgr; Yae 101/112/127/25/27/Mah 12/27 ..	D 19.99
MH-101-Y2 Cgr; Yae FNB31/38/Mah MHFNB38 D ..	19.99
MH-800K 500mw spkr/mic w/clip; Kenwood ..	19.99
MH-800S 500mw spkr/mic/clip; Ali/Ico/Sta/Yae ..	19.99
MH-800Y 500mw spkr/mic; Yae FT50/VX1R ..	24.99
MH-A101 5/35w 2m FM amplifier	D 69.99
MH-A102 5/35w 2m FM/SSB amp/preamp ..	D 89.99
MH-A103 5/50w 2m FM/SSB amp/preamp ..	D 119.99
MH-A201 5/45w 2m/5/35w 440 FM amp ...D ..	159.99
MH-A301 5/50w 2m HT dock boost amp/pre ..	D 115.99
MH-A302 5/45/5/35w 2m/440 HT dock boost D ..	165.99
MHS-I1 lco 2G/02/2/32 adapt; A301/302 D ..	9.99
MHS-I2 lco 2SAT/W2 adapter; A301/302 D ..	1.99
MHS-I3 lco 2GXAT/W21AT adapt; A301/302 D ..	9.99
MHS-I4 lco W32/31/T7/22 adapt; A301/302 D ..	11.99
MHS-I5 lco T8A/T81A adapter; A301/302 D ..	11.99
MHS-K1 Ken 25/26/75/77 adapt; A301/302 D ..	9.99
MHS-K2 Ken TH22/79 adapter; A301/302 D ..	9.99
MHS-K3 Ken G71A/D7A adapt; A301/302 D ..	11.99
MHS-S1 ADI/Standard adapt; A301/302 D ..	9.99
MHS-Y1 Yae 23/411E/470 adapt; A301/302 D ..	4.99
MHS-Y2 Yae 26/415/530 adapt; A301/302 D ..	9.99
MHS-Y3 Yae FT11/41/51 adapt; A301/302 D ..	9.99
MHS-Y4 Yae FT10/40/50 adapt; A301/302 D ..	11.99
MH-VOX-K Deluxe VOX spkr/mic; Kenwood ..	D 6.99

MALDOL (MAL)

AH-14 20m telescoping ant w/BNC; FT-817 ...	\$ 45.99
AH-28 10m telescoping ant w/BNC; FT-817 ...	45.99
AH-C7 40m loading coil only w/BNC; FT-817 ..	33.99
AH-C14 20m loading coil only w/BNC; FT-817 ..	33.99
AH-C21 15m loading coil only w/BNC; FT-817 ..	33.99

Maldol - continued

	AES Price
AH-C28 10m loading coil only w/BNC; FT-817 ..	33.99
AH-R Telescoping whip for AH-C7/14/21/28 ..	17.99
AH-510R 6/2m/440 37" BNC tele whip; FT-817/HT ..	59.99
AH-510R/SMA 6/2m/440 37" SMA tele whip	59.99
AS-20 2m/440 8.5" superflex SMA antenna ...	29.99
AS-25 2m/440 1" SMA antenna	19.99
AS-30 2m/440 15" 0/2.15db superflex SMA ant ..	29.99
EM-B80 Small trunk/hatch/van door lip mt ..	25.99
EX-104B 2m/440 black 0/2.15db 15" mob ...	41.99
EX-104BNMO 2m/440 blk 0/2.15db 15" NMO ...	41.99
EX-107BR 2m/440 black 2.6/4.9db 29" mob ..	52.99
EX-107BRNMO 2m/440 blk 2.6/4.9db 29" NMO ..	52.99
FVS-50 Dlx 2-step 16" 9" cable w/UHF connects ..	39.99
MH-209 2m/440 3" BNC duck	23.99
MH-209SMA 2m/440 3" SMA duck	23.99
MH-510 6m/2m/440 0/0/3.2db 20.75" SMA duck ..	37.99
MH-610 2m/22m/440 0/1.8/3.2db 14" SMA duck ..	49.99
MK-30H Motorized tkn lip/headset van door mt ..	104.99
MSG-1000C 2m/440 2.15/5.5db 39" mobile ..	62.99
MSG-1100C 2m/440 3.5/6db 43" mobile ant ..	72.99
PR-212D 2m/440 6/8.5db 85" mobile ant	99.99
PR-212DNMO 2m/440 6/8.5db 85" NMO mob	99.99
PRM-T Large trunk/hatch/van door lip mt	29.99
SHG-140B 2m 4.1db 56" mobile antenna	54.99
SHG-140BNMO 2m 4.1db 56" NMO mob ant	54.99
SHG-1500B 2m/440 blk 4.5/7.5db 59" mob ..	74.99
SHG-1500BNMO 2m/440 blk 4.5/7.5db 59" NMO ..	74.99

MAXON (MAX)

WTA-9F Ear speaker for FRS-114	Δ \$.29
MX-49FX 5 ch 49 MHz ear mic Xcvr	49.99
MX-49HX 5 ch 49 MHz boom mic/headset Xcvr ..	49.99
MX-49SX 49 MHz boom mic/headset Xcvr	29.99
WX-70 Weather monitor/alert w/ps	D 29.99

MEADE (MEA)

0705-04-01 ETX-70AT Astro telescope w/tripod ..	\$349.99
07025 #882 Extra std tripod .special order ..	99.99
07220 #933 45° 1.25" erecting prism	74.99
07279 #670 dew shield	22.99
3514-03-04 ETX-90EC Astro telescope	495.99
0515-03-01 ETX-125EC Astro telescope	895.99
07436 #497 Autostar controller; ETX-90/125EC ..	149.99
20061 DS-60EC 60mm refractor telescope .† ..	169.99
20071 DS-70EC 70mm refractor telescope D ..	149.99
20091 DS-90EC 90mm refractor telescope .† ..	299.99
20114 DS-114EC 114mm reflector telescope .† ..	269.99
07217 #928 45° 1.25" erecting prism; DS60/70/90 ..	59.99
494 #494 Autostar controller; DS-EC-series † ..	49.99
07170-02 1.25" 6.4mm super Plossl lens ..	89.99
07173-02 1.25" 15mm super Plossl lens ...	89.99
07273 #126 1.25" 2x short-focus Barlow lens ..	59.99
07522 908B broadband nebula filter	Δ 79.99

MIDLAND (MID)

22-410 Speaker/mic for 75-510XLB	D \$ 9.99
22-430 Throat mic/ear/PTT box; 75-510XLB ...	D 9.99
23-505 1.5-150MHz dual meter SWR/power ..	19.99
74-200 SAME weather/hazard alert radio/ps	59.99
74-210 FM/SAME weather/hazard alert radio/ps ..	79.99

MIRAGE (MIR)

A-1015G 50-52 FM/SSB 10/150w amp/preamp ..	\$349.99
B-34 2m FM/2/35w amplifier	69.99
B-34G 2m FM/SSB 3.5/35w amp/preamp	89.99
B-215G 2m FM/SSB 2/150w amp/preamp	339.99
B-310G 2m FM/SSB 4/100w amp/preamp	179.99
B-320G 2m FM/SSB 50/200w amp/preamp ..	399.99
B-1016G 2m FM/SSB 10/160w amp/preamp ..	339.99
B-2516G 2m FM/SSB 25/160w amp/pre	D 249.99
B-2518G 2m FM/SSB 25/160w amp/preamp ..	269.99
B-2530G 2m FM/SSB 25/300w amp/preamp ..	619.99

Mirage - continued AES Price

B-5018G	2m FM/SSB 50/160w amp/preamp	269.99
B-5030G	2m FM/SSB 50/300w amp/preamp ..	599.99
BD-35	2m/440 4/45/4/35w HT amp	149.99
BD-38/BD-38G	2m/440 4/80w HT amp/preamp	279.99
B-24G	5/50w 2m HT dock boost amp/pre	114.99
BD-25	5/45/5/35w 2m/440 HT dock boost	164.99
MI-1	Ico 2G/02/2/32 adapter; B24G/BD25	9.99
MI-2	Ico 2SAT/W2 adapter; B24G/BD25	9.99
MI-3	Ico 2GXAT/W21AT adapt; B24G/BD25	9.99
MI-4	Ico W32/31/T7/22 adapt; B24G/BD25	9.99
MK-1	Ken 26/26/75/77 adapter; B24G/BD25	9.99
MK-2	Ken 22/79 adapter; B24G/BD25	9.99
MS-1	AD/Standard adapter; B24G/BD25	9.99
MY-1	Yae 23/411E/470 adapt; B24G/BD25	9.99
MY-2	Yae 26/415/530 adapt; B24G/BD25	9.99
MY-3	Yae FT11/41/51 adapt; B24G/BD25	9.99
MY-4	Yae FT10/40/50 adapt; B24G/BD25	9.99
C-22G	220 FM/SSB 2/20w amp/preamp	154.99
C-211G	220 FM/SSB 2/110w amp/preamp	299.99
C-1012G	220 FM/SSB 10/120w amp/preamp	299.99
C-1022G	220 FM/SSB 10/220w amp/preamp	589.99
C-2512G	220 FM/SSB 25/120w amp/preamp	289.99
C-2522G	220 FM/SSB 25/200w amp/preamp Δ	519.99
C-5012G	220 FM/SSB 50/120w amp/preamp Δ	249.99
C-5022G	220 FM/SSB 50/200w amp/preamp Δ	479.99
D-15N	430 FM/SSB/ATV 2/15w type N amp ...	169.99
D-26N	440 FM/SSB 2/60w type N amplifier ..	244.99
D-1010N	440 FM/SSB 10/100w type N amp ...	354.99
D-3010N	440 FM/SSB 30/100w type N amp ...	329.99
D-1010-ATVN	430 ATV 10/100w type N amp ...	369.99
RC-1*	Remote control head w/18' cable	45.99

*Not for B-23/C-22/D-26

RC-2 Rem ctl head/ cbl; B-2518G/B-5018G . 45.99

The following Repeater Amplifiers are Special Order. Specify SO-239 or type N connectors

A-1015NR	6m FM 2/80w type N amplifier	\$539.99
A-1015R	6m FM 2/80w SO-239 amplifier	529.99
B-215NR	2m FM 1/110w type N amplifier	524.99
B-215R	2m FM 1/110w SO-239 amplifier	504.99
B-1016NR	2m FM 2/120w type N amplifier ..	559.99
B-1016R	2m FM 2/120w SO-239 amplifier ..	539.99
B-2518NR	2m FM 12/120w type N amplifier ..	519.99
B-2518R	2m FM 12/120w SO-239 amplifier ..	499.99
C-211NR	220 FM .5/80w type N amplifier	584.99
C-211R	220 FM .5/80w SO-239 amplifier	564.99
C-1012NR	220 FM 5/90w type N amplifier	584.99
C-1012R	220 FM 5/90w SO-239 amplifier	564.99
C-2512NR	220 FM 15/90w type N amplifier ..	559.99
C-2512R	220 FM 15/90w SO-239 amplifier ..	539.99
D-1010NR	440 FM 4/80w type N amplifier ...	589.99
D-3010NR	440 FM 12/80w type N amplifier ..	564.99
D-1010-ATVN-R	430 ATV 4/80w type N amp ...	589.99

PREAMPS

KP-1/10M	10m in shack preamp	\$129.99
KP-1/6M	6m in shack preamp	129.99
KP-1/2M	2m in shack preamp	129.99
KP-1/220	220 in shack preamp	129.99
KP-1/440	440 in shack preamp	129.99
KP-2/10M	10m mast mount preamp	139.99
KP-2/6M	6m mast mount preamp	179.99
KP-2/2M	2m mast mount preamp	179.99
KP-2/220	220 mast mount preamp	179.99
KP-2/440	440 mast mount preamp	179.99

WATTMETERS

MP-1	160-10m 25/200/2kw PEP wattmeter .	\$219.99
MP-2	6 & 2m 50/500/1.5kw PEP wattmeter .	219.99
MP-3	420-450 5/50/150w PEP wattmeter	249.99

MOTOROLA (MOT)

53543	Camouflage TalkAbout 250 FRS	\$ 59.99
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Motorola - continued AES Price

50226	Headset w/microphone	14.99
53834	Rosewood T5200 Alkaline FRS	39.99
56360	Black T6220 Alkaline FRS	49.99
53725	Headset w/microphone	14.99
53544	2w grey TalkAbout Distance GMRS	189.99
53547	2w grey TalkAbout Distance DPS GMRS D	179.99
50226	Headset w/microphone	14.99

NCG (NCG)

Power Pocket	12v 2AH lead acid belt batt/cgr	\$ 66.99
RP-150	20A variable ps/lighted meters/fan D	69.99
RP-300	30A variable ps/lighted meters/fan D	99.99

NEW WAVE (NEW)

Advertiser	12' extended Portaple alum mast ...	\$109.99
Traveler	19' extended Portaple alum mast	124.99
Rover	26' extended Portaple alum mast	149.99
Expeditioner	33' extended Portaple alum mast ...	174.99
Explorer	40' extended Portaple alum mast ...	199.99
Big Foot	Welded, unpainted park-on mt	119.99
Snag-on Mount	Clamp on mt; ant-mast ...	19.99

Night Owl Optics (NOO)

NOCC-3	3.1x42 night vision scope w/illuminator	\$199.99
NOCA-42	Camera adapter	49.99
NOLD-20	Lens doubler	49.99

NORCOMM (NOR)

NC-101	Tunable CTCSS encoder	\$ 21.99
NC-104	Programmable CTCSS encoder	26.99
NC-106	Prog CTCSS encoder/decoder	62.99
NC-401	Sub-miniature DTMF decoder	62.99

Oregon Scientific (ORE)

BA-812E	The weather clock	\$ 19.99
EMR-812A	Wireless thermometer	39.99
THR-138	Extra wireless sensor; EMR-812A	24.99
JMR-828	Jumbo atomic clock w/rem temp	69.99
PE-319	Pedometer with personal security	19.99
RGR-122	Wireless rain gauge w/LCD console	59.99
RM-116E	Exactest radio controlled clock	29.99
WMR-112A	Wireless weather station	199.99
WM-918	Dlx weather station w/rain gauge ...	229.99
WMR-968	Dlx wireless WX stn w/rain gauge .	399.99
WR-102	Port WX/hazard radio/SAME alert	59.99
WR-196T	AM/FM/SAME WX alert clock radio .	79.99
WR-3300	Weather/hazard radio/alert w/ps .D	19.99

OUTBACKER (OUT)

OB-8	75-10m 300w PEP 6' 8-band mobile ant	\$279.99
OB-8HP	75-10m 500w PEP 6' 8-band mob ant	299.99
OB-S8	75-10m 300w PEP split ant/storage bag	299.99
OB-8TRI	75-10m 300w PEP 3pc 6' port ant/bag	329.99
Joey	80-2m 20w antenna w/counterpoise ...	249.99
(ALP) MicroMount	Tripod system for Joey ...	49.99
OB-M	75/40/20/17/10m/HF marine 300w PEP 6'	429.99
Perth	75-10m 150w PEP 7.5' mobile ant	289.99
Perth Plus	75-10m+6m/2m 150w PEP 6' mob ant	299.99
Stealth Plus	75-10m+6/2m 100w PEP 4' ant	269.99
Outreach	160-10m 300w PEP 12' antenna ...	399.99
Outreach 500	80-6m 600w PEP 12' antenna	439.99
(ALP) Outpost	Base tripod mtg sys for mob ant	199.99
OB-SB	¾-24 spring and ½" hole base	99.99
Diamond K-400-3/8C	¾-24 trunk mt, 6' coax	69.99
Diamond C-110	10' ext cable; K-400-3/8C	14.99

PACCOMM (PAC)

APRS port switch	.....	\$ 29.99
HandiPacket	Small TNC for handhelds	229.99
PicoPacket TNC, 128K RAM	.....	159.99
PicoPacket dual serial port TNC, 128K RAM	.....	209.99
Spirit-2	Standard high performance controller	249.99
Tiny-2 Mk-2	Multi-purpose TNC	159.99

Palomar Engineers (PAL) AES Price

MSB-3	Magnetic switch receive balun	\$ 29.99
PT-340	Tuner-Tuner (use with ant tuner)	99.99
RFI-4	RF interference kit	25.99
SMB-5	SmartBridge prog; AT computers .....	.29
VLF-A	VLF converter; 10-500 KHz to 80m	99.99
VLF-S	VLF conv; 10-500 KHz to 4-4.5 MHz	99.99

PAR (PAR)

144-AUX	2m 4 effective el add-on, 7 db; 50-EL3 Δ	\$ 9.99
OA-28	10m horizontal omni antenna	74.99
OA-50	6m horizontal omni antenna	63.99
SK-50	Stacking harness for OA-50	36.99
OA-144	2m horizontal omni antenna	54.99
SK-144	Stacking harness for OA-144	34.99
OA-222	220 horizontal omni antenna	54.99
SK-222	Stacking harness for OA-222	19.99
OA-432	430 horizontal omni antenna	54.99
SK-432	Type N stacking harness; OA-432 ...	54.99
UHFDN450	440 dual band notch filter	62.99
VHFDN152	2m dual band notch filter	62.99
VHFDN152HT	2m dual band HT notch filter ..	68.99
VHFTN152-158	2m dual band-pager notch filt	82.99
UHF-12	12" RG58/silver/gold/tef PL259s ..	9.99

PENETROX (PEN)

Penetrox A	4 oz tube for antennas	\$ 12.99
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POLICE CALL (POL)

Vol 3/4 2002	IL/IN/KY/MI/OH/MI book/48 state CD	\$ 19.99
Vol 5/8 2002	AZ/CO/IA/ND/others book/48 state CD	19.99

POLYPHASER (PLY)

LIGHTNING PROTECTION

IS-50NX-C2	125-1000 375/125/50w N flange	\$ 61.99
IS-50UX-C0	1.5-400 2kw/375/125w flange mt	61.99
IS-50UX-C1	50-700MHz 375/125w flange mt	61.99
IS-B50LN-C2	125-1000 375/125/50w N bulkhead	64.99
IS-B50LU-C0	1.5-400 2kw/375/125w bulkhead	64.99
IS-B50LU-C1	50-700 375/125w bulkhead mt	64.99
IS-IE50LU-C0	1.5-400 dlx 2kw/375/125w bulk	129.99
IS-IE50LU-C1	50-500 dlx 375/125w bulkhead Δ	69.99
IS-IE50LN-C1	50-700 dlx 375/125w N bulkhead	117.99
BF Adapter	Bulkhead to flange mt adapter .	9.99
FB Adapter	Flange to bulkhead mt adapter .	11.99
IS-PLD0-120-15A	120v 15A power protector	172.99
IS-PLD0-120-20A	120v 20A power protector	215.99
IS-RCT	8-wire rotor control protector	54.99
J-1	1/2" to 1 1/4" bronze transition clamp	8.99
J-2	1 1/2" to 2 1/4" bronze transition clamp ..	12.99
IS-SPTL	Single phone line protector	57.99
CS112-25	25' 1 1/2" copper strap	25.99
CS112-50	50' 1 1/2" copper strap	51.99
CS112-75	75' 1 1/2" copper strap	75.99
CS112-100	100' 1 1/2" copper strap	99.99
CS3-25	25' 3" copper strap	51.99
CS3-50	50' 3" copper strap	99.99
CS3-75	75' 3" copper strap	149.99
CS3-100	100' 3" copper strap	197.99
CS6-75	75' 6" copper strap	189.99
CU-SPGP	Copper single point ground panel .	69.99
TK-2	1 1/2" strap to Rohn twr corrosion free clamp	5.99
TK-3	1 1/2" strap-2 1/4" to 3 1/4" mast corr free clamp	8.99
1C-112S	#6-#1 wire to 1 1/2" strap clamp bond	10.99
58R-112S	1 1/2" strap to 3/8" gnd rod clamp bond	12.99
MSC-3	Junc; 2+ 1 1/2" or 3" strap clamp bond	10.99
UNI-KIT 2CT	Gnd kit; coax to alum/tin/galv ..	29.99
UNI-KIT 2TC	Gnd kit; galv twr leg to copper .	32.99
UNI-KIT 2CC	Ground kit; coax to copper	28.99
CCK	Copper cleaning kit; 4 oz can, brush	27.99
GLEP	Lightning and EMP Protection book	20.00

AES Price

The POUCH (POU)

1R Pouch for Yaesu VX-1R	\$ 12.99
2-411 Pouch for Yaesu FT-411 Mk II/V12 ....Δ	9.99
5R Pouch for Yaesu VR-120/VX-5R	14.99
10R/10-50 Pouch; Yaesu FT-10/40/50RD	14.99
23-33 Pouch for Yaesu FT-23/33R	9.99
32-5T Pouch; Alinco DJ-G5T/Icom IC-W32A Δ	14.99
95T Pouch for Alinco DJ-195/196T	14.99
110-150 Pouch for Yaesu VX-150	17.99
508 Pouch; Icom IC-Q7ABC/Yaesu VR-500 ...	12.99
510 Pouch; Alinco DJ-X2T/Icom IC-T81A	12.99
AF-738 Pouch for Alinco DJ-C1T/C4T/C5T ...D	9.99
ANALYPOUCH Pouch for MFJ analyzer	24.99
DTX Pouch for Kenwood TH-D7A(G)	17.99
G-71 Pouch for Kenwood TH-G71A	14.99
P-5 Pouch; DJ-S11T/DJ-196T/496T/596T	14.99
Packer Pouch Pouch for Yaesu FT-817	24.99
PR Pouch for AT-201HP/PR-52/222	9.99
RC-3 Pouch for Icom R-3/R-10	14.99
S-1 Pouch; AT-600HP/TH-79A	6.99
S-2 Pouch; TH-79AH/T-235A/VC-H1	14.99
S-3 Short 3 Pouch for HT	4.99
Slim Pouch; Alinco DJ-190/191T/Sta C-288A Δ	4.99
SS Pouch for TH-22AT/TH-28A/FT-51R&HP ..Δ	9.99
T-2A Pouch; AT-201/401/PR-52/222/IC-T2H ..	14.99
V-5T Pouch for Alinco DJ-V5TH	14.99
VX-3T Pouch; Ali DJ-180/280/480T/Ico IC-V8	14.99
XF-1 Pouch for Yaesu VXF-1/VXF-10 FRS ....D	4.99
Chest B/S Chestpouch ser B w/S pocket ....Δ	19.99

PREMIER (PRE)

AL-800 2m/440 34" BNC rubber duck ant ...	\$ 29.99
RD-2 2m/440 2" BNC duck	14.99
RD-2SMA 2m/440 2" SMA duck	15.99
RD-8 2m/440/900 6.5" BNC duck	14.99
RD-9 2m/440/900 7" BNC duck	18.99
RD-9SMA 2m/440/900 7" SMA duck	20.99
RD-78 2m/440/900 15" BNC whip	19.99
RD-98 2m/440 17" BNC whip	24.99
RD-98SMA 2m/440 17" SMA whip	27.99
MC-2 Super suction & mag mt; NMO/UHF ..D	19.99
SPM-100 Spkr/mic; ADI/Alinco/Icom/Yaesu ...	21.99
SPM-100L Spkr/mic/L plug; Icom/Yaesu ....D	9.99
SPM-101 Spkr/mic for Kenwood	21.99
SPM-102 Spkr/mic; Yaesu FT-50R/VX-1R/5R ..	21.99
SPM-201E Lapel mic/earhook for Kenwood ..D	9.99
SPM-301 Spkr/mic/PTT lock/volume; Ken ...Δ	6.99
SPM-400A Boom/mic; ADI/Alinco/Icom/Yaesu	34.99
SPM-400L Boom/mic/L; Icom/Yaesu	9.99
PTT-1 Rem PTT control; SPM-400 series ...D	4.99
SPM-400LPT Boom/mic/L/PTT-1/Icom/Yaesu ...D	14.99
SPM-402A Boom mic; Yae FT-50R/VX-1R/5R	34.99
SPM-500 Throat/mic/earph; ADI/Alinco/Ico/Yae ..	19.99
EH-1K Deluxe earphone/earhook; Kenwood ..Δ	4.99
PCA-IVHF Cable/modular; Icom VHF	6.99
PCA-KHF Cable/8-pin; Alinco/Kenwood HF ...Δ	6.99
PCA-KVHF Cable/modular; ADI/Alinco/Ken VHF ...Δ	6.99
PCA-YHF Cable/8-pin; Yaesu HF	6.99
PCA-YVHF Cable/modular; Yaesu VHF	4.99
PCA-Y100 Cable; Yaesu FT90/100/2600 ...Δ	4.99

PRO AM by VALOR (VAL)

VHF/UHF ANTENNAS ONLY (No Mounts)

MO144-440 2m/440 antenna only	\$ 21.99
MAQA 136-515 MHz ¼ wave antenna only	8.99
PHB-144 2m ¾ wave 3 db antenna only	31.99

MOUNTS ONLY FOR ABOVE ANTENNAS

PAM Low profile magnet mount w/coax	\$ 24.99
PAMB Black low profile mag mount w/coax ..	24.99
PAN38 ¾-24 antenna to NMO mt adapter	14.99

Pro Am - continued

PAS ¾" surface mount w/coax	19.99
PASMO ¾" surface mt only (no coax)	7.99
PAS38 ¾" surface mount w/coax	19.99
PAT-2 No hole trunk mount w/coax	19.99
PAT-2B Black no hole trunk mount w/coax	19.99
OTHER VHF/UHF ANTENNAS & MOUNTS	
77BNC 2m/440 12" 0/2.1db BNC duck	\$ 9.99
220BNC 220 10" ¼ wave duck w/BNC	4.99
BNC-SC-RS Suction cup extension; ducks ...	22.99
100ADN SO-239 horizontal mirror mt	10.99
101ADN HD alum mirror mt w/SO-239	10.99
105AD Hvy duty ¾" mount assembly	6.99
105HD Heavy duty mount assembly	3.99
301 4" low profile ¾-24 magnet mt w/coax ..	25.99
401 5" low profile ¾-24 magnet mt w/coax ..	19.99
DAK Mt for 2 vert ants or horizontal dipole ...	13.99
GM-144 2m 2.5db on glass antenna	29.99
GM-270 2m/440 2.6/3db on glass antenna	59.99
TGMKD On glass replacement mtg kit	8.99
MM-3401 Maxi-mag mt ¾-24 kit (3-5" mags)	59.99
MM-3401B Blk maxi-mag mt ¾-24 kit (3-5" mags)	59.99
SS-100MOT 3-way NMO mirror mt w/coax	23.99
CX-144 2m ¾ wave 3db ¾-24 whip	17.99
MM-270B 2m/440 mini mag mt ant w/BNC ..	19.99
PM-144-440BN 2m/440 BNC mag mt ant	33.99
TGS 30-1200MHz on-glass scanner ant	39.99
VAA-002B 144-450 black ¼ wv mag mt ant ..	23.99
VAA-002BBN 144-450 black ¼ wv BNC mag ant	27.99
120 Sawtooth hump mt for mobile radios	7.99
D-270 2m/440 100w duplexer	39.99
MOBILE HF ANTENNAS (No Mounts)	
AB-5 75/40/20/15/10m antenna	\$119.99
PHF-160 160m 8' ¾-24 whip	97.99
PHF-75 75m 8' ¾-24 whip (4' coil, 4' whip) ..	29.99
PHF-40 40m 8' ¾-24 whip (4' coil, 4' whip) ..	23.99
PHF-30 30m 8' ¾-24 whip (4' coil, 4' whip) ..	23.99
PHF-20 20m 8' ¾-24 whip (4' coil, 4' whip) ..	23.99
PHF-17 17m 8' ¾-24 whip (4' coil, 4' whip) ..	23.99
PHF-15 15m 8' ¾-24 whip (4' coil, 4' whip) ..	23.99
PHF-12 12m 8' ¾-24 whip (4' coil, 4' whip) ..	23.99
PHF-10 10m 8' ¾-24 whip (4' coil, 4' whip) ..	23.99
PHF-6 6m 58" ¾-24 whip	23.99
103S Quick disconnect/5 twist lock connectors	24.99
QRZ (WAL)	
Ham QRZ US & international calls plus programs	\$ 29.99
QSL Card Holders (ART)	
QSL Card Holders, pack of 3, 20 cards/holder	\$ 12.99
RF INQUIRY (RFI)	
CF250E-UHF 250w 1.8-70 common mode filter	\$ 89.99
CF5KV-UHF 5kw 1.8-70 common mode filter	124.99
RF PARTS (See Diamond)	
RF PRODUCTS (RFP)	
199-416 BNC mag mt, 10' coax w/BNC	\$ 17.99
Radio Am Callbook (RAC)	
059332 2002 World Radio TV Handbook	\$ 24.95
08762X 2002 N America/Int CD-ROM callbook	49.99
RAMSEY (RAM)	
AA-7 Active antenna kit	\$ 28.99
AR-1 Aircraft receiver kit	29.99
CS-1 Crystal radio set kit	19.99
CW-7 CMOS keyer kit	24.99
DF-1 Foxhound direction finder kit	59.99
DN-1 Nicad conditioner/fast charger kit ....Δ	14.99
FR-1 FM broadcast receiver kit	24.99
HR-20 20m receiver kit	29.99
HR-40 40m receiver kit	29.99

AES Price

Ramsey - continued

AES Price

HR-80 80m receiver kit	D 19.99
PR-10 2m preamp kit	17.99
QRP-20 20m CW transmitter kit	29.99
QRP-40 40m CW transmitter kit	29.99
QRP-80 80m CW transmitter kit	29.99
RFS-1 RF sensed switch kit	14.99
SCA-1 SCA decoder kit	27.99
SR-2 Shortwave receiver kit	29.99
TS-1 CW touch paddle switch kit	6.99
UT-5 Universal timer kit	8.99
VS-1 Voice activated switch kit	6.99

RANGER (RAN)

RCI-2950DX 10/12m 25w SSB/10w FM/AM/CW	\$269.99
RCI-2970DX 10/12m 150w SSB/50w FM/AM/CW	399.99
RCI-5054DX 6m 25w SSB/10w FM/AM/CW ...	319.99

SGC (SGC)

04-01 SG-2000 150w 1.8-30 MHz 12v Xcvr	1599.99
04-11 Std SG-2000 rem head/bkt/20' cable	589.99
04-15 Remote mobile head/mem ch's only	449.99
51-82 Fan kit for continuous duty xmit	269.99
04-10 SG-2000 Xcvr w/DSP/PowerTalk head ...	1849.99
04-23 SG-2000 Xcvr/DSP/PowerTalk remotd	2099.99
04-12 Remote kit w/swivel bkt & cable ...Δ	129.99
04-13 Remote kit w/5-way mt & cable ....D	219.99
04-22 PowerTalk remote head	799.99
52-32 Carbon telephone handset	99.99
52-34 RS-232 interface; SG-2000 Xcvr	179.99
52-51 CA-1 High voltage feed wire .per ft. .	.79
52-53 CA-2000 Ant coupler cbl; custom per ft.	4.99
52-54 CA-2000 Rem head cbl; custom per ft. .	4.99
53-04 PS-30 30A/40A peak unreg ps	389.99
53-05 PS-50 50A/70A peak unreg ps	419.99
52-61 PSC/12-1 12' ps cable, 1 plug	50.99
52-62 PSC/12-2 12' ps cable, 2 plugs ..	60.99
05-01 SG-2020 Mini 20w PEP QRP Xcvr/mic	675.99
05-02 SG-2020 Mini 20w PEP QRP Xcvr/mic/ADSP	795.99
54-22 SG-239 200w Smartuner	249.99
52-96 SG-500 1.8-24MHz 12v 500w PEP amp	1249.99
51-82 Fan kit for continuous duty xmit	269.99
54-14 SG-230 200w 1.8-30 MHz 12v Smartuner	489.99
54-61 25' extension cable	60.99
54-62 50' extension cable	90.99
54-63 SmartLock; tuners made after 9/1/93	59.99
54-15 SG-235 500w 1.8-30MHz 12v Smartuner	1169.99
54-16 SmartPro 200w 1.6-30MHz 12v tuner D	399.99
54-17 SG-231 HF+6m 12v Smartuner	529.99
54-18 SG-237 100w PEP HF+6m mini Smartuner ...	359.99
54-19 SG-237 PCB only 100w PEP Smartuner	249.99
54-70 DC coaxial line isolator; SGC tuner ..Δ	69.99
55-04 SG-103 1.8-30MHz 150w dipole	229.99
55-06 SG-104 2-28 MHz 90' 1kw dipole	629.99
55-27 SG-303 1.8-30 9' mobile whip & mt ..	449.99
55-67 Replacement whip for SG-303	249.99
55-28 SG-307 1.8-60 7' mobile whip & mt ..	449.99
55-47 QMS-2 Quick mt sys w/SG-230/303 whip	895.99
55-48 QMS-3 500w antenna system	2169.99
55-49 QMS-7 Quick mt sys w/SG-231/307 whip	1249.99
55-50 QMS-37 Quick mt sys/SG-237, less whip	549.99

SAMLEX (SAM)

SEC-1223 23A switching ps w/fan, 25A surge	\$ 99.99
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SANGEAN (SAN)

ATS-404 AM/FM/SW portable receiver w/case †	\$ 89.99
ATS-505P AM/FM/SW portable receiver	129.99
ATS-606A AM/FM/shortwave portable receiver	149.99
ATS-818 AM/FM/shortwave portable receiver	179.99
ATS-818CS AM/FM/SW port Rcvr w/cassette .	229.99
ATS-909 AM/FM/shortwave portable receiver	269.99
DT-200V AM/FM/VHF TV sound dig port Rcvr	69.99

AES Price

SEQUOIA (SEQ)

POCKET PC REF	Pocket PC reference book ...	\$ 14.99
POCKET REF	Pocket reference book	9.99
WinRef 98-95	Windows pocket reference book	9.99

SHAKESPEARE (SHA)

4036-1H	Hvy duty mirror mt w/coax adapter ..	\$ 7.99
396-1	3 db, 5' VHF marine ant, less mount ..	59.99
5101	6 db, 8' VHF marine ant, less mount ...	49.99
5202	6db 8' VHF mar ant/chrome ferrule, less mt	69.99
5206-C	Econo 8' VHF mar ant/chrome ferrule, no mt	39.99
495	White plastic lift & lay mount	16.99
4187	Stainless steel ratchet mount	36.99
420	3db, 5' VHF marine ant w/fold-down mt	59.99

SHURE (SHU)

526T Series II	Dynamic amplified desk mic ..	\$124.99
R96	Replacement cartridge	27.99

Smiley Antenna (SMI)

270A	2m/440 gain telescopic whip	\$ 19.99
270A/SMA	2m/440 gain tele whip w/SMA	19.99
5/8 SLD-2	2m ½ Slim Duck rubber ant	17.99
5/8 SLD-220	220 ½ Slim Duck rubber ant	17.99
5/8 SLD-440	440 ½ Slim Duck rubber ant	17.99
5/8 SLD-2 Combo	2m ½ duck & stubby ant ..	24.99
5/8 SLD-220 Combo	220 ½ duck & stubby ant ..	24.99
5/8 SLD-440 Combo	440 ½ duck & stubby ant ..	24.99
FLX 1/2 WAV-2M	½ wv 2m BNC whip/flex coil ..	25.99
RD-2	2m rubber duck antenna	14.99
RD-220	220 rubber duck antenna	14.99
RDMD-2	2m mini rubber duck antenna	14.99
RDMD-220	220 mini rubber duck antenna	14.99
RDMD-440	440 mini rubber duck antenna ...	14.99
RDS-2	2m stubby rubber duck antenna	14.99
RDS-220	220 stubby rubber duck antenna ...	14.99
RDS-440	440 stubby rubber duck antenna ...	14.99
SD-2	2m Slim Duck thin rubber antenna	14.99
SD-220	220 Slim Duck thin rubber antenna ..	14.99
SL-440	440 slimline type duck	12.99
SS-II	Super Stick 2m ½ wv telescopic ant	19.99
SS-III	Super Stick 220 ½ wv telescopic ant ..	19.99
SS-IV	Super Stick 440 ½ wv telescopic ant ...	19.99
SS-II/Combo	2m ½ wv telescopic & stubby ant ..	26.99
SS-III/Combo	220 ½ wv telescopic & stubby ant ..	26.99
SS-IV/Combo	440 ½ wv telescopic & stubby ant ..	26.99
TAQ-2	2m ¼ wave stainless whip	10.99
TAQ-220	220 ¼ wave stainless whip	10.99
TAQ-440	440 ¼ wave stainless whip	10.99
TS	Thin Stick 2m/220 ½ wave telescopic whip	16.99

SOLARCON (SOL)

A-99	10m/CB 17' 8" fiberglass base ant	\$ 64.99
GPK-1	Ground plane radial kit	39.99

SONY (SON)

SHORTWAVE

ICF-2010	AM/FM/SW/LW/air port Rcvr w/ps ..	\$359.99
ICF-SW07	AM/FM/SW micro Rcvr w/ps	399.99
ICF-SW11	AM/FM/SW compact receiver	49.99
ICF-SW12	AM/FM/SW travel Rcvr/world clock ..	99.99
ICF-SW35	AM/FM/SW portable receiver	89.99
ICF-SW40	AM/FM/SW port receiver	129.99
ICF-SW77	AM/FM/SW portable receiver	469.99
ICF-SW100S	AM/FM/SW portable receiver	349.99
ICF-SW100OT	AM/FM/SW port Rcvr/cassette † ..	399.99
ICF-SW100OTS	AM/FM/SW Rcvr/tape/AN-LP1 D ..	399.99
ICF-SW7600GR	AM/FM/SW portable receiver	179.99
AC-E60HG	6vdc 400ma AC adapter	22.99
AN-1	LW/MW/SW outdoor active rcv ant	99.99
AN-102	LW/MW/SW indoor active rcv ant ...	79.99
AN-LP1	Folding active loop ant w/case	89.99

Sony - continued

DCC-E260	Mobile DC adapter; ICF-SC1	D 9.99
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Super Antennas (SUA)

MP-1	Portable 150w 7-50Mhz antenna	\$150.99
FT817MKT	MP-1 mounting bkt for FT-817 ..	20.99
MBKT	MP-1 mobile kit (4' whip & 2' base rod)	15.99
MP-80	80m coil for MP-1	25.99
TRPD	Tripod for MP-1	20.99

SUPERIOR (SUP)

18640	Universal grip-type adjustable HT cradle	\$ 14.99
(HOU) CPM-310	6" adjustable pedestal mt ..	14.99

Synthetic Textiles (SYN)

100' ½"	black double braided rope	\$ 6.99
100' 3/16"	¾" black double braided rope	14.99
100' 5/16"	¾" black double braided rope	19.99
350' ¾"	black double braided rope	39.99

TE SYSTEMS (TES)

0510G	6m FM/SSB 10/170w amp/preamp	\$319.99
0552G	6m FM/SSB 20-25/375w amp/preamp	486.99
1410G	2m FM/SSB 5-10/160w amp/preamp	328.99
1412G	2m FM/SSB 25-45/160w amp/preamp	286.99
1452G	2m FM/SSB 10-25/350w amp/preamp	525.99
2212G	220 FM/SSB 25-45/130w amp/preamp	316.99
4412G	440 FM/SSB 15-30/100w amp/preamp	355.99
4452G	440 FM/SSB 25/185w amp/preamp ...	547.99

TV GUARDIAN (TVG)

TV Guardian	Foul language filter for TV/video ..	\$ 89.99
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Terk Technologies (TER)

AF-9330	Indoor AM/amplified FM tower ant ..	\$ 24.99
AF-9925	Indoor AM/amplified FM loop ant	49.99
AM-1000	Indoor passive fine-tunable AM ant ..	49.99
FM-50	Amplified indoor/outdoor FM ant kit ...	99.99
LF-20	2.4GHz wireless video/audio system ...	89.99
TSP-6	AC/TV/telephone surge protector	39.99
TV-50	Amplified indoor/outdoor TV ant kit	79.99
TV-MAST	Mast mount kit for TV-50	D 9.99
TV-42	Clip-on mini dish mt amp TV ant; 2 LNB dish	59.99
TV-55	Indoor/outdoor TV antenna	89.99

Times Microwave (TMS)

LMR-400	Standard ¾" coax cable	per ft. \$.64
LMR-400	.....500 ft. Roll	249.99
LMR-400-DB	Watertight ¾" coax cable per ft. ....	.74
LMR-400-DB	.....500 ft. Roll	299.99
LMR-400-UF	UltraFlex ¾" coax cable	per ft. .98
LMR-400-UF	.....500 ft. Roll	399.99

TIMEWAVE (TIM)

ANC-4	RF noise canceller	\$199.99
AC-1	12vdc 600 ma adapter	15.99
DSP-599zx	All-mode DSP noise filter	399.99
AC-4	12vdc 1.5A ps	19.99
DSP-RTTY	RTTY prog; DSP-599zx/59Y	D 49.99
PK-96/100K	9600 baud controller/128K RAM	199.99
AC-1	12vdc 600 ma adapter	15.99
PK-232/PSK	Multimode controller w/sound card ..	499.99
AC-4	12vdc 1.5A ps	19.99

TRIPP LITE (TRI)

PV-140	140w 12vdc-115vac inverter	\$ 42.99
PV-300	300w 12vdc-115vac inverter	65.99
ISOBAR-8 ULTRA	8 outlet surge suppress/LEDs	79.99
MT-6+	6 outlet console surge suppressor ..Δ	49.99
SUPER-7	7 outlet surge suppressor	19.99
SUPER-7+TEL	7 outlet/fax modem surge	29.99

TUBES (TUB)

6146W	Tube	\$ 26.99
12BY7A	Tube	12.99

Tubes - continued

3-500ZG-RFP	High dissipation tube (3-500Z) ..	149.99
3-500Z	.....†	229.99
572B	Tube	49.99
811A	Tube	19.99

Also see SVETLANA

US TOWER (UST)

FREE STANDING CRANK-UPS (not for T³X)

TX-438	38' crank-up tower	T 1142.99
TX-455	55' crank-up tower	T 1699.99
TX-472	72' crank-up tower	T 2832.99
TX-472MDP	72' crank-up w/motor drive	T 4549.99
TX-489MDPL	89' crank-up w/motor drive ..	T 7390.99
TX-3106MDPLSP	106' crank-up/mot drive ..†T	11699.99

FREE STANDING HD CRANK-UP TOWERS

HDX-538	38' crank-up tower	T 1477.99
HDX-555	55' crank-up tower	T 2569.99
HDX-572MDPL	72' crank-up w/motor drive ..	T 6775.99
HDX-589MDPL	89' crank-up w/motor drive ..	T 8869.99
HDX-689MDPL	89' HD crank-up w/motor	T 17135.99
HDX-5106MDPL	106' HD crank-up w/motor T	18647.99

COMPACT TMM (Top mt rotor for full retraction)

TMM-433SS	33' crank-up tower	T 1219.99
TMM-433HD	33' HD crank-up tower	T 1477.99
TMM-541SS	41' crank-up tower	T 1599.99

ACCESSORIES FOR CRANK-UP TOWERS

CX-2	Coax arms (2) for 2-section tower	\$ 55.99
CX-3	Coax arms (3) for 3-section tower	77.99
CX-4	Coax arms (4) for 4-section tower	122.99
CX-5	Coax arms (5) for 5-section tower	150.99
CX-6	Coax arms (6) for 6-section tower	190.99
HDP	Service platform	T 813.99
STS-4	Rotor accessory for TX/TMM towers ...	T 211.99
IV-16	Inverted vee arm for MA's	41.99
M-5	2" OD 5' mast extension for MA's	40.99
M-10	2" OD 10' mast	T 77.99
M-15	2" OD 15' mast	T 115.99
M-20	2" OD 20' mast	T 136.99
M-15R	2" OD 15' reinforced mast	T 156.99
M-20R	2" OD 20' reinforced mast	T 207.99
CM-20	2" OD 20' cromolly mast	T 489.99
MD-75	Heavy duty 1 HP motor drive	T 997.99
MDP-750*	Pull-down drive; TX-472/HDX-555 T	1551.99
MDPL-1000*	Pull-down drive; HDX-572	T 2106.99

*Requires MCL-100 or RMC-1000. MDP-750 and MDPL-1000 not sold separately

MRF	Mast raising fixture	268.99
MCL-100	Limit switch package	465.99
RMC-1000	Remote control w/limit switch	997.99
RP-3	Rotor plate for 10" section	39.99
RP-4	Rotor plate for 12½" section	47.99
RP-5	Rotor plate for 15" section	52.99
TRX-80	Raising fixture; TX-438/455; HDX-538/555 T	434.99
TRX-80HD	Raising fixture; TX-472/489; HDX-572/589 T	571.99
TRX-100HD	Raising fixture; HDX-689/5106 T	805.99
TB-2US	Thrust bearing; 2" mast w/2 flange holes	110.99

MA-SERIES TUBULAR TOWERS

MA-40	40' crank-up mast	T \$899.99
MA-550	55' crank-up mast	T 1499.99
MA-550MDP	55' crank-up mast w/motor	T 2932.99
MA-770*	70' crank-up mast	T 2529.99
MA-770MDP*	70' crank up mast w/motor ..	T 3999.99
MA-850*	85' crank-up mast	T 3909.99
MA-850MDP*	85' crank-up mast w/motor ..	T 5391.99

*Requires MAB or MARB-series base

MA-SERIES ACCESSORIES

CX-2M	Coax arms (2) for MA-40	\$ 59.99
CX-3M	Coax arms (3) for MA-550	88.99
CX-4M	Coax arms (4) for MA-770	133.99

US Tower - continued AES Price

CX-5M Coax arms (5) for MA-850	160.99
MAB-40 Hinged base for MA-40	361.99
MAB-550 Hinged base for MA-550	432.99
MAB-770 Hinged base for MA-770	522.99
MAB-850 Hinged base for MA-850	633.99
MAF-40 Raising fixture for MA-40	221.99
MAF-550 Raising fixture for MA-550	306.99
MAF-770 Raising fixture for MA-770	311.99
MAF-850 Raising fixture for MA-850	412.99
MARB-40 Rotor base accessory for MA-40 ..	553.99
MARB-550 Rotor base accessory for MA-550 T	654.99
MARB-770 Rotor base accessory for MA-770 T	774.99
MARB-850 Rotor base accessory for MA-850 T	916.99

All US TOWER products are drop-shipped (shipped direct to you from the US TOWER factory). On these factory drop-shippments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Visalia, California via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. Please allow sufficient time for delivery on these special order products. Most truck lines will not unload the tower for you, so please be sure to have enough manpower and/or equipment on hand when your tower is delivered by the carrier.

UNADILLA (See W2AU)

UNIDEN (UNI)

PRO-340XL 40 ch portable CB/rubber ant ..D	\$ 29.99
PRO-350XL 40 ch handheld CB	49.99
PRO-501AXL AM Mobile CB w/mag ant	34.99
PC-68LW AM Mobile CB w/WX alert	99.99
PC-68XL AM Mobile CB	79.99
PC-78LW AM Mobile CB w/WX alert	119.99
PC-78XL AM Mobile CB	99.99
PRO-510XL AM Mobile CB	39.99
PRO-520XL AM Mobile CB	54.99
PRO-538W AM Mobile CB w/WX	59.99

UNIDEN BEARCAT

BC-244CLT 30 ch scanner w/instant WX	\$ 99.99
BC-248CLT 50 ch scanner w/WX alert	109.99
BC-278CLT 100 ch scanner/SAME WX alert ..	169.99
BC-350A 50 ch prog/service search w/AC ps	109.99
BC-780XLT 500 ch scanner/trunk/SAME WX ..	349.99
BC-895XLT 300 ch prog scanner/trunking ..	199.99
BCT-7 Pre-prog warning scan/air/800/AC ps	169.99
BC-002 CTCSS tone board; BC-760XLT	39.99
BC-003 Switch box for BC-002	9.99
BC-004 RF preamp for BC-760XLT	24.99
BC-005 CTCSS tone board; 8500/9000XLT ..	37.99
BC-60XLT-1 30ch prog pocket; use AA batts .	89.99
BC-80XLT 50 ch prog pocket scanner/800	119.99
UA-502 Cig power cord	11.99
AD-100 AC adapter/batt cgr; earlier scanners	16.99
AD-140 Extra charger; BC-100XLT/200XLT	13.99
BP-200 Extra battery; BC-200XLT	26.99
BP-205 Extra battery; BC-100XLT	26.99
SC-180B 100 ch sport pocket/800 MHz	169.99
SC-200 200 ch sport pocket/800 MHz	199.99
AD-70 Extra charger	10.99
BP-120 Extra battery	18.99
LC-120 Carrying case; BC120XLT/230XLT ..	19.99
(KOS) QZ/99 Noise reduction headphones .	59.99
UA-502 Cig power cord	11.99
BC-245XLT 300ch pocket/trunk/smart scan ..	219.99
BP-180 Extra battery	16.99
CRX-120 Desk charger; BC-245XLT	24.99
LC-120 Carrying case	19.99
UA-502 Cig power cord	11.99
BP-2500 Extra batt; BC2500/3000	63.99

Uniden - continued AES Price

LC-150B Carrying case; SC-150B	6.99
PS-001 DC power cord; original BC-60XLT ..	4.99
RFD-001 IN/L/KY/OH/MI/WI freq book	14.99
Atlantis 5w VHF marine handheld	99.99
HH-940P 1w submersible VHF marine handheld	139.99
HH-985 5w 90ch marine handheld/SAME WX alert	149.99
Solara 25w 90 ch VHF marine Xcvr	99.99
Oceanus 25w 90 ch VHF marine Xcvr	139.99

Unified Microsystems (UNM)

XT-4 Small size CW memory keyer	\$ 69.99
KC-4 Cable set for XT-4 to transceiver	9.99
W9XT Contest card for IBM PC & compatible	149.99
CCC-4 4pin mic contest card cable semi-kit	44.99
CCC-8 8pin mic contest card cable semi-kit	44.99

UNI-SOLAR (UNS)

USF-5/FLX-5 5w flexible solar cell	\$ 99.99
USF-32/FLX-32 32w flexible solar cell	299.99

Universal Towers (UNT)

4-30 4 sq ft wind load 30' alum tower	\$325.99
9-30 9 sq ft wind load 30' alum tower	438.99
12-30 12 sq ft wind load 30' alum tower ....T	576.99
21-30 21 sq ft wind load 30' alum tower ....T	684.99
23-30 23 sq ft wind load 30' alum tower ....T	906.99
35-30 35 sq ft wind load 30' alum tower ....T	1021.99
4-40 4 sq ft wind load 40' alum tower	546.99
7-40 7 sq ft wind load 40' alum tower	686.99
9-40 9 sq ft wind load 40' alum tower	765.99
12-40 12 sq ft wind load 40' alum tower ....T	906.99
15-40 15 sq ft wind load 40' alum tower ....T	1013.99
21-40 21 sq ft wind load 40' alum tower ....T	1125.99
23-40 23 sq ft wind load 40' alum tower ....T	1347.99
4-50 4 sq ft wind load 50' alum tower	769.99
5-50 5 sq ft wind load 50' alum tower	875.99
7-50 7 sq ft wind load 50' alum tower	985.99
9-50 9 sq ft wind load 50' alum tower	1095.99
15-50 15 sq ft wind load 50' alum tower ....T	1455.99
16-50 16 sq ft wind load 50' alum tower ....T	1570.99
4-60 4 sq ft wind load 60' alum tower	1096.99
6-60 6 sq ft wind load 60' alum tower	1344.99
7-60 7 sq ft wind load 60' alum tower	1431.99
9-60 9 sq ft wind load 60' alum tower	1534.99
3-70 3 sq ft wind load 70' alum tower	1429.99
4-70 4 sq ft wind load 70' alum tower	1756.99
6-70 6 sq ft wind load 70' alum tower	1788.99
7-70 7 sq ft wind load 70' alum tower	1869.99
3-80 3 sq ft wind load 80' alum tower	1926.99
4-80 4 sq ft wind load 80' alum tower	2231.99
2-90 2 sq ft wind load 90' alum tower	2311.99
B-14 Base for tower	67.99
B-18 Base for tower	67.99
B-22 Base for tower	103.99
B-26 Base for tower	132.99
Extra 14" stubs (between base & tower) .set	14.99
Extra 18" stubs (between base & tower) .set	26.99
Extra 22" stubs (between base & tower) .set	42.99
Extra 26" stubs (between base & tower) .set	42.99
Extra 30" stubs (between base & tower) .set	63.99
RFM-11 Flat roof mt for guyed tower	46.99
RFM-14 Flat roof mt for guyed tower	46.99
RFM-18 Flat roof mt for guyed tower	72.99
RFM-22 Flat roof mt for guyed tower	97.99
RFM-26 Flat roof mt for guyed tower	129.99
R-11 Rotor mount	32.99
R-14 Rotor mount	49.99
R-18 Rotor mount	65.99

SEE LITERATURE FOR TOWER CONFIGURATIONS

11 Top 11" top tower section	110.99
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Universal - continued AES Price

14 Top 14" top tower section	T 138.99
18 Top 18" top tower section	T 252.99
14 Taper 14" taper tower section	T 122.99
18 Taper 18" taper tower section	T 219.99
22 Taper 22" taper tower section	T 327.99
26 Taper 26" taper tower section	T 440.99
11 Straight 11" straight tower section	T 108.99
14 Straight 14" straight tower section	T 122.99
18 Straight 18" straight tower section	T 219.99
22 Straight 22" straight tower section	T 327.99
26 Straight 26" straight tower section	T 440.99
HD35-40 35 sq ft wind load 40' alum tower T	1573.99
HD21-50 21 sq ft wind load 50' alum tower T	1677.99
HD9-60 9 sq ft wind load 60' alum tower ...T	1759.99
HD16-60 16 sq ft wind load 60' alum tower T	2119.99
HD21-60 21 sq ft wind load 60' alum tower T	2232.99
HD8-70 8 sq ft wind load 70' alum tower ...T	1979.99
HD12-70 12 sq ft wind load 70' alum tower T	2451.99
HD17-70 17 sq ft wind load 70' alum tower T	2674.99
HD21-70 21 sq ft wind load 70' alum tower T	2787.99
HD8-80 8 sq ft wind load 80' alum tower ...T	2533.99
HD9-80 9 sq ft wind load 80' alum tower ...T	2642.99
HD11-80 11 sq ft wind load 80' alum tower T	3002.99
HD12-80 12 sq ft wind load 80' alum tower T	3006.99
HD16-80 16 sq ft wind load 80' alum tower T	3227.99
HD4-90 4 sq ft wind load 90' alum tower ...T	2637.99
HD8-90 8 sq ft wind load 90' alum tower ...T	3112.99
HD11-90 11 sq ft wind load 90' alum tower T	3558.99
HD4-100 4 sq ft wind load 100' alum tower T	3533.99
HD8-100 8 sq ft wind load 100' alum tower T	3780.99
B-30 Base for HD tower	207.99
RFM-30 Flat roof mt for guyed tower	180.99
1-5/8SC Flange bearing	98.99
2-3/16SC Flange bearing	109.99
Top Plate Flange plate welded to top section	24.99

SEE LITERATURE FOR TOWER CONFIGURATIONS

30 Taper 30" taper tower section	T 554.99
30 Straight 30" straight tower section	T 554.99
1-1/4" OD x 5 ft aluminum mast	T 23.99
1-1/4" OD x 10 ft aluminum mast	T 33.99
1-1/2" OD x 10 ft aluminum mast	T 41.99
2" OD x 8 ft aluminum mast	49.99
2" OD x 16 ft aluminum mast	95.99

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VALOR (See PRO AM)

VANCO (VCO)

370052 3 1/2 digit multimeter	\$ 19.99
HF-24RS Scanner headphones w/dual volume	19.99
SWR-1 SWR/field strength meter	19.99
SWR-3 Mini SWR meter	14.99

VAN GORDEN (VAN)

Hi-Q 1:1 balun	\$ 14.99
Hi-Q 4:1 balun	14.99
Antenna center insulator	6.99
Antenna end insulator	4.99

Van Gorden - continued AES Price

Dog bone type antenna insulator	each	99
NR-100 Nylon antenna guy rope	100 ft.	4.99
NR-1,000 Nylon ant guy rope	1,000 ft.	44.99
D-80 80m 130' wire dipole antenna		32.99
SD-80 Short 90' 80m dipole		36.99
D-40 40m 66' wire dipole antenna		29.99
SD-40 Short 45' 40m dipole		34.99
D-20 20m 33' wire dipole antenna		28.99
D-15 15m 22' wire dipole antenna		27.99
D-10 10m 16' wire dipole antenna		26.99
All Bander Dipole 160-10m (use tuner) 135' ant		29.99
Shorty All Bander 160-10m (use tuner) 70' ant		44.99
G5RV Flat-top 3.5-30 102' ant/xmfr/100' cable		50.99
G5RV-E Flat-top 3.5-30 102' ant/31' twinlead		28.99
G5RV JR Flat-top 7-30 52' ant/17' twinlead		24.99
G5RV-M Flat-top 1.8-30 204' ant/65' twinlead		50.99
N connector Type N connector for 9913/8214		4.99
#14 Stranded hard drawn ant wire	100 ft.	11.99
#14 Stranded hard drawn ant wire	150 ft.	16.99
300 ohm 1kw transmitting twinlead	100 ft.	19.99
450 ohm 18ga solid ladderline	100 ft.	14.99
450 ohm 18ga solid ladderline	1,000 ft.	109.99
450 ohm 14ga stranded ladderline	100 ft.	29.99
450 ohm 14ga stranded ladderline	1,000 ft.	229.99
(WA1) WA1FFL Ladder-Loc 450 ohm ctr ins		12.99
RG-213 Non-contaminating	per ft.	.49
RG-213/500 Non-contaminating .500 ft. Roll		179.99
8X-1.5ST 1.5' RG-8X coax/silver teflon PL259s		7.99
8X-3ST 3' RG-8X coax/silver teflon PL259s		8.99
8X-6ST 6' RG-8X coax/silver teflon PL259s		10.99
8X-12ST 12' RG-8X coax/silver teflon PL259s		11.99
8X-25ST 25' RG-8X coax/silver teflon PL259s		15.99
8X-50ST 50' RG-8X coax/silver teflon PL259s		24.99
8X-75ST 75' RG-8X coax/silver teflon PL259s		31.99
8X-100ST 100' RG-8X coax/silver teflon PL259s		37.99
213-25ST 25' RG-213 coax/silver teflon PL259s		25.99
213-50ST 50' RG-213 coax/silver teflon PL259s		38.99
213-75ST 75' RG-213 coax/silver teflon PL259s		54.99
213-100ST 100' RG-213 coax/silver teflon PL259s		72.99

VECTRONICS (VEC)

VC-300M 300w mobile antenna tuner		\$ 99.99
VC-300DLP 300w antenna tuner		149.99
VC-300D 300w digital antenna tuner		179.99
HFT-1500 1.5kw antenna tuner		399.99
AT-100 .3-30 MHz active antenna/tuner		79.99
HPF-1 High pass filter, 75 or 300 ohms		24.99
HPF-2 Deluxe high pass filter, 75 or 300 ohms		29.99
LP-30 1.5kw low pass filter		69.99
LP-2500 2.5kw low pass filter		129.99
CK-200 Deluxe keyer		79.99
DL-300M 300w 150MHz dummy load		44.99
DL-650M 1.5kw 650MHz dummy load		74.99
DL-2500 2.5kw 150MHz dummy load		179.99
PM-30HF 300/3kw HF wattmeter		79.99
PM-30UV 30/300w VHF/UHF wattmeter		89.99
AC-12 12vdc 300ma adapter	D	12.99
PS-50F 35A power supply, 50A surge	Δ	129.99
121K Crystal radio set kit		19.99
131K Aircraft receiver kit		29.99
201K CW keyer kit		24.99
412K Nicad/NiMH battery conditioner kit		49.99
422K FM broadcast SCA decoder kit		27.99
830K Super SSB audio filter kit		19.99
841K Tunable SSB/CW audio filter kit		34.99
1140K 40m receiver kit		29.99
1240K 40m QRP CW transmitter kit		29.99
1290K AM radio transmitter kit		29.99
1294K TV transmitter kit		27.99
1402K 2m preamp kit		17.99

Vectronics - continued AES Price

1422K 220MHz preamp kit	Δ	2.99
VELLEMAN (VEL)		
DVM-810 3½ digit digital multimeter		\$ 19.99
VIBROPLEX (VIB)		
090 Original Gold Bug		\$309.99
100 Original Presentation Super deluxe bug		269.99
105 Original Deluxe Bug		199.99
110 Original Standard Bug		169.99
113 VibroKeyer Gold Paddle		279.99
115 VibroKeyer Deluxe Paddle		184.99
120 VibroKeyer Standard Paddle		149.99
123 Iambic Gold Paddle		279.99
125 Iambic Presentation Paddle		249.99
130 Iambic Deluxe Paddle		189.99
135 Iambic Standard Paddle		149.99
145 Triangular Brass Racer Iambic paddle		139.99
150 Square Brass Racer Iambic paddle		139.99
153 Gold straight key		279.99
155 Standard straight key		149.99
160 Deluxe straight key		189.99
162 Gold Hand key/Iambic Paddle double		369.99
163 Gold Hand key/VibroKeyer Paddle double		369.99
165 Deluxe Hand key/Iambic Paddle double		329.99
170 Dlx Hand key/VibroKeyer Paddle double		329.99
175 Standard Hand key/Iambic Paddle double		279.99
180 Std Hand key/VibroKeyer Paddle double		279.99
185 Square Racer Deluxe Iambic paddle		139.99
190 Square Racer Standard Iambic paddle		119.99
195 Blue Racer 2000 Std Millennium Bug		189.99
198 Blue Racer 2000 Dlx Millennium Bug		229.99
200 Code Warrior Junior Paddle		99.99
205 Venus Key Chrome paddle special order		449.99

WA1FFL (WA1)

Ladder-Loc 450 ohm ladderline center attach		\$ 12.99
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W2AU (Unadilla) (W2A)

W2AU 1:1 160-10m balun, lightning arrestor		\$ 24.99
W2AU 4:1 160-10m balun, lightning arrestor		24.99
W2AU Beam Balun, 1:1		24.99
W2DU-HF 1:1 1.8-30 MHz choke balun		26.99
W2DU-VHF 1:1 30-250 MHz choke balun		26.99
W2DU Beam Balun 40-10m 1:1 choke balun		26.99
HA AN-sulator center insulator		9.99
HE END-sulator end insulators	pair	4.99

W5YI (W5Y)

ECS Extra upgrade software/manual/code		\$ 34.99
GUS General upgrade software/manual/code		34.99
GW05 Gordon West 6 ea 0-5 wpm code tapes ..		29.99
GW13 Gordon West 6 ea 5-16 wpm code tapes		29.99
GW20 Gordon West 6 ea 10-28 wpm code tapes		29.99
GWEM Gordon West Extra study manual		14.99
GWEW Gordon West 4 ea Extra theory tapes		19.99
GWGM Gordon West General study manual ...		12.99
GWGW Gordon West 4 ea General theory tapes		19.99
GWTM Gordon West Technician study manual		11.99
GWTW Gordon West 4 ea Tech theory tapes ..		19.99
HOS Ham operator software/code (all classes)		39.99
NCS Technician software w/manual		34.99
NCVP Technician video/manual/part 97 book		29.99
TPG Tech/General software/manuals/code		49.99
WMC 0-48 wpm code software		12.99

WAHL (WAH)

7740 Quick charge cordless soldering iron kit		\$ 47.99
7971 30 minute butane soldering iron		19.99
7974 120 minute butane soldering iron		27.99

WELLER (WEL)

7200PK 75w soldering gun kit		\$ 29.99
EC-1002-1 40w temp controlled solder stn ..		199.99

Weller - continued AES Price

WP-25 25w professional soldering iron		34.99
W-60P 60w temp controlled soldering iron ...		64.99
WSTA3 Pyrophen portable LP soldering iron ...		99.99
WST2 Pyrophen Jr. portable butane iron		89.99
WTCPT 60w temp controlled soldering stn		119.99

West Mtn Radio (WES)

RB/PL/C Rigblaster Plus for 8-pin radios		\$139.99
RB/MB/C Rigblaster for 8-pin radios		109.99
RB/RJ/C Rigblaster for RJ-45 radios		109.99
RB/NO/8C Rigblaster nomic for 8-pin radios		59.99
RB/NO/RJC Rigblaster nomic for RJ-45 radios		59.99

WILSON (WIL)

Little Wil Magnetic mt CB antenna		\$ 31.99
Trucker 2000 Black mobile ¼-24 CB whip ...		57.99
W-1000 Magnetic Black mobile CB antenna		76.99
W-1000 Roof Top Black mobile CB antenna		57.99
W-1000 Trunk Lip Black mobile CB antenna		65.99

WINEGARD (WIN)

CX-0625 25' RG-6 TV coax w/F connectors ...		\$ 10.99
CX-0650 50' RG-6 TV coax w/F connectors ...		15.99
CX-0675 75' RG-6 TV coax w/F connectors ...		19.99
CX-6100 100' RG-6 TV coax w/F connectors		24.99
DS-2000 Universal pipe/tower mt; TV ant ..Δ		9.99
PR-7010 22 el 66.5" boom Prostar TV ant		39.99
PR-7032 33 el 103.25" boom Prostar TV ant		64.99
PR-7042 43 el 149.75" boom Prostar TV ant		99.99
TV-2900 Outdoor TV matching transformer		2.99
SM-2200 Base scanner ant/50' cb/f connectors	D	45.99

YAESU (YAE)

FT-1000MP Mk V 200w HF Xcvr/EDSP/tuner/ps. *		\$2599.99
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*Price w/instant coupon; coupon expires 3/31/02

MD-200A8X mic \$100 from Yaesu w/Mk V; USA thru 3/31/02

Mk V Field 100w HF Xcvr/EDSP/tuner/ps.		*1999.99
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*Price w/instant coupon; coupon expires 3/30/02

DVS-2 Digital voice recording module		219.99
FH-1 Remote control keypad		88.99
FTV-1000 200w 6m transverter; Mk V		899.99
FP-29 30vdc ps; FTV-1000 w/orig MP/Field		499.99
FRB-5 Relay board; FTV-1000 w/orig MP		50.99
MD-100A8X Desk mic w/tone control		129.99
MD-200A8X Deluxe high fidelity desk mic		379.99
MH-31B8 Extra hand microphone		39.99
SP-8 External speaker w/filters		159.99
LL-7 Phone patch unit for SP-8		139.99
TCXO-6 Deluxe TCXO unit, 0.5 ppm		174.99
YF-110CN 250 Hz 3rd IF main Rcvr CW filt		144.99
YF-110SN 2 KHz 3rd IF main Rcvr SSB filt		144.99
YF-114CN 250 Hz 2nd IF main Rcvr CW filt		144.99
YF-114SN 2 KHz 2nd IF main Rcvr SSB filt		144.99
YF-115C 500 Hz CW Collins mech filter		159.99
YH-77STA Open-air type stereo headphones		51.99
FT-1000D Dlx Xcvr/BPF/TCXO/XF-ABCD/ps †		4199.99
DVS-2 Digital voice recording module		219.99
FIF-232C Interface for RS-232		95.99
MD-100A8X* Desk mic w/tone control		129.99
*Cable needed for FT-1000D; contact service for info		
MD-200A8X Deluxe high fidelity desk mic		379.99
SP-5 External spkr w/audio filter		144.99
LL-5 Phone patch unit for SP-5		129.99
XF-455MC 600Hz CW filter (455KHz); subrcvr		144.99
YF-110CN/XF-F 250 Hz CW xtal filter (455 KHz)		144.99
YH-77STA Open-air type stereo headphones		51.99
FT-920 9-band Xcvr/AF-DSP/tuner/6m/kyr †		*1139.99
*Price w/instant coupon; coupon expires 3/31/02		
FM-1 FM unit FREE with FT-920! Limited Time!		
FP-1023 23A switching ps w/fan, 25A surge ...		159.99
FP-1030A 25A ps, 30A surge w/meters		249.99
FM-1 FM unit		62.99
MD-100A8X Desk mic w/tone control		129.99

Yaesu - continued

AES Price

MD-200A8X	Deluxe high fidelity desk mic	379.99
SP-8	External speaker w/filters	159.99
LL-7	Phone patch unit for SP-8	139.99
T-9018320	Extra DC cable	26.99
TCXO-7	TCXO unit	99.99
YF-116A	6 KHz AM filter	119.99
YF-116C	500 Hz CW filter	119.99
YH-77STA	Open-air type stereo headphones	51.99
FT-847	HF/6m/2m/430 Earth Station Xcvr/mic †	*1249.99
*Price w/instant coupon; coupon expires 3/31/02		
FP-1023	23A switching ps w/fan, 25A surge	159.99
FP-1030A	25A ps, 30A surge w/meters	249.99
ATAS-100	HF/6/2/430 motorized mob ant	319.99
ATBK-100	Antenna base kit; use w/base mt	89.99
CT-61	Interface cable; FT-847 to amp	15.99
FC-20	Automatic antenna tuner	269.99
FVS-1A	Voice synthesizer	43.99
MD-100A8X	Desk mic w/tone control	129.99
MH-36D8	TTP mobile microphone	60.99
MMB-66	Mobile mounting bracket	39.99
SP-8	External speaker w/filters	159.99
T-9018320	Extra DC cable	26.99
YF-115C	500 Hz CW Collins mech filter	159.99
YF-115S-02	2.5 KHz SSB Collins mech filt	159.99
YH-77STA	Open-air type stereo headphones	51.99
FT-840	HF Xcvr/SW Rcvr/mic	† *579.99
*Price w/instant coupon; coupon expires 3/31/02		
FP-1023	23A switching ps w/fan, 25A surge	159.99
FP-1030A	25A ps, 30A surge w/meters	249.99
FC-10	External coax fed auto tuner	379.99
FC-800	External long wire auto tuner	439.99
FIF-232C	Interface for RS-232	95.99
FM-747	FM unit	62.99
MD-100A8X*	Desk mic w/tone control	129.99
*Cable needed for FT-840; contact service for info		
MD-200A8X	Deluxe high fidelity desk mic	379.99
MLS-100	Mobile speaker	45.99
MMB-20	Mobile mount	34.99
SP-6	External speaker w/filter	144.99
SP-7	Mobile speaker	40.99
T-9018320	Extra DC cable	26.99
TCXO-4	TCXO unit	99.99
YF-112A	6 KHz AM filter	119.99
YF-112C	500 Hz CW filter	119.99
YH-77STA	Open-air type stereo headphones	51.99
FT-817	5w HF/6m/2m/430 SSB/AM/FM Xcvr	*669.99
*Price w/instant coupon; coupon expires 3/31/02		
(W4R) OTT-1	One-touch tune for FT-817	59.99
CSC-83	Soft case w/side pocket for FT-817	25.99
CT-39	Packet cable	9.99
CT-62	CAT interface cable	29.99
EDC-6	Extra DC cord; plug & wire only	7.99
FNB-72	1000ma 9.6v nicad battery	60.99
MH-36E8J	TTP mic	60.99
NC-72B	Nicad wall charger	18.99
TCXO-9	TCXO unit, 0.5 ppm	99.99
YF-122C	500 Hz Collins CW filter	159.99
YF-122S	2.3 KHz Collins SSB filter	159.99
FT-100D	MiniHF/6/2/440/DSP/TTP/CW/filt/TCXO/dec †	*839.99
*Price w/instant coupon; coupon expires 3/31/02		
FP-1023	23A switching ps w/fan, 25A surge	159.99
FP-1030A	25A ps, 30A surge w/meters	249.99
ATAS-100	HF/6/2/430 motorized mob ant	319.99
ATBK-100	Ant base kit; use w/base mt	89.99
CT-39	Packet cable	9.99
CT-58	Band data cable; Yaesu amplifier	29.99
CT-62	CAT interface cable	29.99
CT-69	6-pin modular - 8-pin mic jack adapter	29.99
FC-20	Automatic antenna tuner	269.99
MLS-100	Mobile speaker	45.99
MMB-62	Remote front panel mounting bkt	39.99

Yaesu - continued

AES Price

MMB-67	Quick release bracket	29.99
SP-6	External speaker w/filter	144.99
LL-5	Phone patch unit for SP-6	129.99
SP-7	Mobile speaker	40.99
T-9021925	Extra DC cord	42.99
XF-117A	6 KHz AM filter	99.99
XF-117CN	300 Hz CW filter	99.99
Suggest dealer installation of filter in FT-100D		
Only one optional filter may be installed		
YH-77STA	Open-air type stereo headphones	51.99
YSK-100	Separation kit	79.99
CT-20	Mic cable for use with MD-1C8	2.99
CT-26	Mic adapter cable; modular to 8-pin	22.99
FAS-1-4R	Remote antenna selector	129.99
FC-1000	HF wire ant tuner; FT747/757/767	149.99
FP-1023	23A switching ps w/fan, 25A surge	159.99
FP-1030A	25A ps, 30A surge w/meters	249.99
FIS-27	CTCSS decoder unit; orig FT-100	47.99
MH-31A8J	Extra hand mic; FT-900	39.99
TCXO-2	TCXO unit; FT-990	49.99
TCXO-8	TCXO unit; orig FT-100	69.99
XF-110C	500Hz CW filter; FT-900	49.99
XF-110S	2.6KHz SSB filter; FT-900	129.99
XF-117C	500 Hz CW filter; orig FT-100	69.99
XF-455M6	600Hz CW filter; FT-650	49.99
YA-30	1.8-30 MHz broadband dipole ant	229.99
YH-77ST	Open-air type stereo headphones	51.99
YS-60	1.8-60 MHz 2kw PEP wattmeter	129.99
YS-500	140-520 MHz 200w PEP wattmeter	109.99
Quadra System	VLP1000 HF+6m amp/ps/tuner	3999.99
FRG-100B	.1-30 MHz shortwave receiver	599.99
FM Unit-100	FM unit	47.99
TCXO-4	TCXO unit	99.99
YF-110CN/XF-F	250 Hz CW xtal filter	144.99
YF-115C	500 Hz CW Collins mech filter	159.99
VR-120	.1MHz-1.2995GHz AM/FM hand/cell bkld †	*129.99
*Price w/instant coupon; coupon expires 3/31/02		
51R Clone/CT-35	Clone cable; VR-120	9.99
CSC-76	Soft case for VR-120	19.99
VR-500	.1M-1.3G AM/FW/SSB hand/cell bkld †	*249.99
*Price w/instant coupon; coupon expires 3/31/02		
51R Clone/CT-35	Clone cable; VR-500	9.99
ADMS-3	Windows programming software	39.99
CSC-72	Soft case for VR-500	19.99
EDC-5B	DC adapter w/noise filter	26.99
EDC-6	DC adapter; plug & wire only	7.99
FNB-59	Nicad battery for VR-500	29.99
NC-60B	Wall charger	14.99
VR-5000	.1M-2.6G base rcvr AM/FW/SSB/cell bkld	*699.99
*Price w/instant coupon; coupon expires 3/31/02		
DSP-1	DSP unit	119.99
DVS-4	Digital voice recorder	47.99
FVS-1A	Voice synthesizer	43.99
E-736	DC cable for FT-736R	16.99
FEX-736-50	6m module for FT-736R	279.99
FEX-736-220	220 MHz module; FT-736R	309.99
FEX-736-1.2	1.2 GHz module for FT-736R	539.99
AD-3	100w 2m/440 duplexer	52.99
FRC-4	DTMF pager unit; FT-5200/6200	.99
FIS-7A	Encoder/decoder; newer 290/690/790	39.99
MH-27B8	8-pin TTP mic; FT-5200/6200	65.99
FT-7100M	50/35w 2m/440 FM Xcvr/TTP	*299.99
*Price w/instant coupon; coupon expires 3/31/02		
AD-3	100w 2m/440 duplexer	52.99
ADMS-2G	Windows programming software	39.99
CT-39	Packet cable	9.99
MEK-2	Mic extension kit	42.99
MLS-100	Mobile speaker	45.99
MMB-60	Quick release mobile bracket	31.99
MMB-62	Remote front panel mounting bkt	39.99
SP-7	External speaker	40.99

Yaesu - continued

AES Price

YSK-7100	Remote separation kit	69.99
FT-90R	50/35w 2m/440 micro FM Xcvr	† *319.99
*Price w/instant coupon; coupon expires 3/31/02		
ADMS-2E	Windows programming software	39.99
MEK-2	Mic extension kit	42.99
MLS-100	Mobile speaker	45.99
SP-7	External speaker	40.99
RA-0131900	Extra mobile bracket	4.99
T-9021810	Extra DC cable	12.99
YSK-90	Remote separation kit	64.99
FS-100	Deluxe mic for FT-8500	79.99
FIS-22	CTCSS decode unit; FT-8100R	68.99
MH-39A6J	Regular mic for FT-8500	49.99
MMB-53	Mobile mounting bkt for MW-2	2.99
YSK-8100	Rem separation kit; FT-8100R	69.99
*Price w/instant coupon; coupon expires 3/31/02		
FT-3000M	70w 2m FM Xcvr/TTP/ext rcv	† 299.99
ADMS-2D	Windows programming software	39.99
CT-39	Packet cable	9.99
DVS-4	Digital voice recorder	47.99
FIS-17A	CTCSS decode unit	47.99
MLS-100	Mobile speaker	45.99
MMB-60	Quick release mobile bracket	31.99
SP-7	External speaker	40.99
T-9021810	Extra DC cable	12.99
FRC-6	DTMF pager; 2400M/2500M/7400H	.99
MH-27A8J	TTP mic/modular plug; early 2500M	60.99
MH-36C8J	Extra TTP mic; late FT-2500M	60.99
FT-2600M	60w compact 2m FM Xcvr/TTP mic †	*169.99
*Price w/instant coupon; coupon expires 3/31/02		
ADMS-2E	Windows programming software	39.99
MLS-100	Mobile speaker	45.99
MMB-48	Extra mobile bracket	16.99
SP-7	External speaker	40.99
T-9021810	Extra DC cable	12.99
FT-1500M	50w 2m FM Xcvr/TTP mic	† *139.99
*Price w/instant coupon; coupon expires 3/31/02		
ADMS-2F	Windows programming software	39.99
MH-36C8J	Extra TTP microphone	60.99
MLS-100	Mobile speaker	45.99
RA-0242900	Extra mobile bracket	9.99
SP-7	External speaker	40.99
T-9021810	Extra DC cable	12.99
FP-1023	23A switching ps w/fan, 25A surge	159.99
FP-1030A	25A ps, 30A surge w/meters	249.99
LF-1	Mobile 13A DC noise filter	26.99
MLS-100	Mobile speaker	45.99
SP-4	Mobile speaker	31.99
SP-7	External speaker	40.99
VXR-5000VADC/Vertex	25w 2m FM rpt	1199.99
VXR-5000VCA/Vertex	25w 2m FM rpt w/ps	1399.99
VXR-5000UCDC/Vertex	25w 440 FM rpt	1199.99
VXR-5000U/TC/Vertex	25w 440 FM rpt w/ps	1399.99
Repeaters require service dept. set-up; \$72 minimum		
(COM) ID-8	Auto morse code ID'er	69.99
VX VPL-1D/Vertex	Rptr prog soft & cable	95.99
Accessories for 09-series		
FNB-4A	500ma 12v battery; 09-series	Δ \$ 62.99
FIS-6	Encoder/decoder; 09-series	D 4.99
Accessories for FT-26/415/416/530		
CA-8	2 chg sleeves; NC-50/FT-416/530	D \$.69
CSC-50	Vinyl case; 415/416/FNB25	D .99
FBA-12	AA cell holder	Δ 19.99
FT-33R	5w 220 FM HT/batt/cgr	† 229.99
Accs for FT-23/33/73/411/811/470/911		
CA-7	2 chg charging sleeves; NC-50/411E/470	Δ \$ 19.99
CLIP-1	Belt clip	Δ 7.99
CSC-245	Soft case; FT-23/33/73 w/FNB-12S	D .49
CSC-28	Soft case; FT-23/33/73 w/FNB-12S	Δ 4.99
CSC-35	Soft case; FT-411/811/911/FNB-17	D .49
CSC-37	Soft case; FT-411 w/FNB-12S/14	Δ 16.99

Yaesu - continued

AES Price

FBA-17 AA battery holder	19.99
FNB-12S 600ma 12v (5w) battery	55.99
FNB-17 600ma 7.2v battery	34.99
FTS-12 Encoder/decoder for FT-23/33/73	60.99
FTT-4 DTMF (TTP) unit for FT-23/33/73	1.99
MH-34C2B Compact lapel speaker/mic	30.99
NC-28B Extra wall charger for FNB-17	9.99
NC-34B Wall charger for FNB-14	9.99
NC-65B/NC-18B Wall charger for FNB-12S	14.99
PA-6 Mobile DC adapter/cgr; FNB-14/17	31.99
YH-2 Lightweight VOX headset w/mic	29.99
FT-50RD/41B 5w 2m/440 HT/FNB41/FTT-12 + *	209.99

***Price w/instant coupon; coupon expires 3/31/02**

ADMS-1E Windows programming software ..	39.99
CA-15 Charging stand; FT-10/40/50	27.99
NC-60B Wall charger; FNB-40/41/CA-15 ..	14.99
CLIP-10 Spring loaded belt clip	7.99
CN-2 BNC to SMA adapter: FT-10/40	8.99
CN-3 BNC to SMA adapter: FT-50R	8.99
CSC-68 Soft case; FNB-41/FBA-15	16.99
CSC-69 Soft case; FNB-40	4.99
CSC-V10 Cordura soft case; FT-10/40/50 ..	27.99
CT-27A Cloning cable	10.99
CT-30 Microphone Y adapter	10.99
CT-53 Packet cable	9.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	7.99
FBA-15 4-AA battery holder	19.99
FBA-21 6-AA battery holder	38.99
FEP-10 Earphone	9.99
FNB-41 600ma 9.6v (5w) battery	58.99
FNB-42 1100ma 9.6v (5w) battery	62.99
FNB-V47 1100ma 7.2v battery w/belt clip ..	55.99
PA-17 Battery cable extender	57.99
FTT-12 16-key keypad/dec/DVRS; FT-50R ...D	19.99
LCC-10C Leather case/belt clip; 50/FNB41/V47	31.99
LCC-10S Leather case/swivel; 50/FNB41/V47	31.99
MH-30C2B Speaker/mic; use CT-30 also ...	45.99
MH-34B4B Speaker/mic	30.99
MH-37A4B Earpiece/microphone	30.99
NC-50 1-hour dual slot charger	92.99
CA-14 2 charging sleeves; NC-50	26.99
RH-1 Black rubber case protector	7.99
RH-1R Orange rubber case protector	7.99
VC-25 VOX headset	62.99
YHA-54 Replacement 2m/440 BNC duck ...	16.99
MH-29A2B LCD disp spkr/mic; FT-530/51R ..	49.99

Accessories for FT-11R/41R/51R

CA-10 2 charge sleeves; NC-50/11/41/51 ..	\$ 14.99
CSC-61 Case; 11R/41R/FNB33/38/FBA14 ..	4.99
CSC-62 Soft case; FT-11R/41R/FNB-31	9.99
CSC-66 Soft case; FT51R/FNB33/38/FBA14 ..	9.99
EDC-12 DC adapter; FT-11R/41R/51R	29.99
FBA-14 AA battery holder	19.99
FNB-31 600ma 4.8v battery	29.99
FNB-33 1200ma 4.8v battery	39.99
FNB-38 600ma 9.6v battery	69.99
FTS-26 CTCSS decoder; FT-11R/41R	29.99
MH-35A2B Spkr/mic/clip/earphone jack	24.99
MH-37B2B Earpiece/microphone	14.99
NC-55B Wall charger for FNB-31	4.99
VC-22 VOX headset	39.99
VX-1R 500mw 2m/440 submini HT/lith ion + *	129.99

***Price w/instant coupon; coupon expires 3/31/02**

ADMS-1E Windows programming software ..	39.99
CN-3 BNC to SMA adapter	8.99
CSC-71 Soft case for VX-1R	16.99
CT-44 2-pin spkr/mic adapter	12.99
CT-53 Packet cable	9.99
EDC-15 DC adapter	38.99
FBA-20 Battery holder	19.99

Yaesu - continued

AES Price

FEP-10 Earphone	9.99
FNB-52LI Extra 700ma 3.6v lith ion batt ..	36.99
MH-34B4B Speaker/mic	30.99
MH-37A4B Earpiece/microphone	30.99
NC-66B Extra 2 hour wall charger	18.99
VC-25 VOX headset	62.99
VX-5R 5w 6m/2m/440 FM HT/lith ion batt + *	259.99
*Price w/instant coupon; coupon expires 3/31/02	
VX-5RS Silver 5w 6m/2m/440 FM HT/lith ion + *	259.99
*Price w/instant coupon; coupon expires 3/31/02	
ADMS-1E Windows programming software ..	39.99
CD-15 Charger stand (use with NC-72B) ..	29.99
CN-3 BNC to SMA adapter	8.99
CSC-73 Soft case for VX-5R	19.99
CT-27A Cloning cable	10.99
CT-44 2-pin spkr/mic adapter	12.99
CT-53 Packet cable	9.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	7.99
FBA-23 2 AA cell battery case	25.99
FNB-58LI Extra 1100ma 7.2v lith ion batt ..	69.99
MH-34B4B Speaker/mic	30.99
MH-37A4B Earpiece/microphone	30.99
NC-72B Extra wall charger	18.99
SU-1 Altitude/barometric pressure sensor ...	35.99
VC-25 VOX headset	62.99
VX-150/Vertex 5w 2m HT/batt/cgr/16key TTP + *	129.99

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ADMS-1F Windows programming software ..	39.99
CN-3 BNC to SMA adapter	8.99
CT-27A Cloning cable	10.99
CT-44 2-pin spkr/mic adapter	12.99
CT-53 Packet cable	9.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	7.99
FBA-25 6 AA cell battery case	48.99
FNB-V57 1100ma 7.2v battery	70.99
FNB-64 Extra 700ma 7.2v battery	43.99
LCC-150/TT Leather case	23.99
LCC-150S/TT Leather case w/swivel	31.99
MH-34B4B Speaker/mic	30.99
MH-37A4B Earpiece/microphone	30.99
NC-72B Extra wall charger	18.99
VAC-400B 1-hour desk top rapid charger ..	56.99
VC-25 VOX headset	62.99

ANTENNA ROTORS

G-450A 10 sq ft antenna rotor/5-wire	\$259.99
G-550 12 sq ft elevation rotor/6-wire	299.99
G-800SA Med/hvy duty 450 degree 17sq ft/5-wire	339.99
G-800DXA Med/hvy duty 17sq ft/presets/5-wire	429.99
G-1000DXA HD 450 degree 23sq ft/presets/6-wire	519.99
G-2800DXA HD 450 degree 34sq ft/presets/6-wire	1139.99
G-5500 11 sq ft azimuth/elevation rotor/2x6-wire	629.99
GA-3000 Tower absorber joint; G-1000/2800	119.99
GC-038 Mast clamp; G-450/800/1000/5500	31.99
GC-048 Mast clamp; G-2800	47.99
GL-33 Mast adjustment plate	14.99
GS-050 50mm thrust bearing; mast 1 1/4-2" ...	31.99
GS-065 65mm thrust bearing; mast 1 1/4-2 1/2"	47.99
GS-232A Computer interface; DXA rotors ..	539.99
C-1000 Interface cable; GS-232A - SDX/G5500	29.99
GS-680U Universal self-adjusting mast bearing	99.99
Sep Kit Separation kit for G5500	23.99

See BELDEN for rotor cable

CONSUMER ELECTRONICS

VXA-120 Aviator Pro II 4w air handheld	\$229.99
VXA-200/16-SU Aviator Pilot II 5w air HH/baro ...	399.99
FNB-53 Nicad battery pack; Yaesu FRS	6.99

CLOSE-OUTS

ADI MQA-999 Rapid charger	\$ 59.99
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Close-Outs - continued

AES Price

ALI DJ-280TH 5w 220 FM HT/batt/cgr/TTP	189.99
ALI DM-340MVT 30A ps w/meters/35A surge ..	189.99
ALI EBP-35N 7.2v 900ma nicad battery	49.99
ALI EDC-45 Quick charger; DJ180/280TH	79.99
AST Silver Eagle Final Edition amp desk mic ..	199.99
B&W ASW-90 500KHz-30MHz 90' rcv only ant ..	119.99
BUS 20-0600 Compact laser rangefinder 600 ..	229.99
BUS 26-3652 3.6x52 night scope/illuminator ..	199.99
BUS 78-0200 4.5" reflector telescope	269.99
BUS 78-8000 8" Dobsonian reflector telescope ..	399.99
BUT 10/11 10/11mm butterfly beam	149.99
CEL 11015 Celestar 8 telescope	1099.99
CEL 21072 Firstscope 80 EQWA refractor telescp ..	249.99
CMT B-20 2m/440 30" cell look-alike ant	49.99
CMT B-20NMO 2m/440 30" cell look NMO ant ..	49.99
CMT CHF-412 40/15/2m 28" BNC duck; FT817 ..	69.99
CMT CHF-816 80/10/6m 28" BNC duck; FT817 ..	79.99
CMT CYA-2412 2.4G 12el 15.5db 2' 6" bm N beam	129.99
CMT Z-750 2m/440 2.1/5.5db 39" theft resistant	59.99
CMT Z-780 2m/440 4.5/7.2db 5' theft resistant	79.99
COB 18WX ST Sound Tracker AM Mob CB w/WX ..	69.99
COB 25NW ST Night Watch Sound Tracker AM Mob CB	79.99
COB 29NW ST Night Watch Sound Tracker AM Mob CB	99.99
CUS 22N-SK Harness, pwr divider; 2 17B2s ...	99.99
CUS X-940 40m 1 el add-on kit for X-9	169.99
CUT HPP-7A 7AH gel-cell w/overnight cgr	49.99
CUT HP-7AF 7AH gel-cell w/2.5 hr fast cgr ...	89.99
DAI CN-410M 3.5-150 15/150w mob meter ..	104.99
DAI CN-460M 140-450 15/150w mob meter ..	104.99
DAI CS-401 4-position 800 MHz coax switch ..	139.99
DIA SG-6000NMO 52-54 2.15db 39" NMO mob ..	49.99
DIA X-2200A 2m/220 6/7.8db 11.5' base ant ..	149.99
DRA TNC-270 9600 bps controller; TR-270 ...	169.99
EME EAN-3400 HDTV dig-ready amp omni TV ant	49.99
EME EVO-6500 900M wireless vid obsys/5" mon	169.99
EME EVO-6550 2nd 900M camera; EVO-6500 ...	69.99
GAR GPS-12CX Color GPS receiver	199.99
GAR NavTalk Analog cell phone/GPS combo ..	299.99
HEI BM-10-I Boom mic/headset; lcom	69.99
HEI PRO-5-4 Boom mic/sgl headset (HC-4) ..	89.99
HEI PRO-5-5 Boom mic/sgl headset (HC-5) ...	109.99
HYG 191S 160MK-88 160m kit for 188S	69.99
IAC 40m-S 40m half sloper 33' antenna	69.99
ICO AD-25 Battery charger adapter; 2GXAT ..	49.99
ICO BC-119-11 Desk cgr (adapter required) ..	89.99
ICO BC-119-31 Nicad desk cgr; IC-T81A	99.99
ICO BP-3 250ma 8.4v battery	49.99
ICO BP-5 425ma 10.8v high power battery	89.99
ICO BP-8 800ma 8.4v long life battery	99.99
ICO BP-83 7.2v 600ma battery	79.99
ICO BP-84 7.2v 1000ma battery	99.99
ICO EX-1759 Infrared receiver	99.99
ICO FL-96 2.8 KHz 455 KHz IF SSB filter	149.99
ICO HM-90A Wireless microphone	89.99
ICO IC-2100H 50w 2m FM Xcvr/HM-98S TTP mic	149.99
ICO IC-746 Xcvr/Rcv/6m/2m/IF-DSP/tuner/mic	1299.99
ICO IC-756PRO Xcvr/Rcv/6m/IF-DSP/tuner/kyr	1899.99
ICO MB-17A Quick release bracket	49.99
ICO PCR-100-12 .01-1300 am/fm PC Rcv/cell bldk	249.99
ICO RS-746 Win remote control software	79.99
ICO UT-30 Tone encoder; IC-707	49.99
ICO UT-49 DTMF decoder unit; 2800H/2GXAT ..	69.99
ICO UT-66 Voice synthesizer; IC-775DSP	83.99
ICO UT-89 Tone scan/decode unit; IC-2350H ..	89.99
KAN Data Engine TNC w/no modems	49.99
KEN DRU-2 Digital recording unit; TS-950SDX ..	139.99
KEN MB-13 Dlx quick release mob mt; TS50S ..	55.99
KEN SP-950 Ext spkr/audio filters; TS-950SDX ..	149.99
KEN TH-42AT 2.5w 440 FM HT/batt/cgr/TTP ..	219.99
KEN TSU-5 Prog CTCSS decoder; TS-790A	64.99
KEN TU-7 Prog encoder; 2550/751A/TW4100A ..	54.99
KEN TU-8 CTCSS tone unit; TS-450S/690S	54.99

Close-Outs - continued AES Price

KEN UBZ-AM14BK FRS black handheld ...pair	59.99
KEN UT-10 10w 1.2 GHz module; TS-790A	549.99
KEN YG-455C-1 500 Hz CW filt; TS-450/690	149.99
MAG 00-19044-000 Low profile external ant	49.99
MAG Meridian XL GPS/plotter/detachable ant ..	129.99
MAH MH-A101 5/35w 2m FM amplifier	69.99
MAH MH-A102 5/35w 2m FM/SSB amp/pre ...	89.99
MAH MH-A103 5/50w 2m FM/SSB amp/pre ...	119.99
MAH MH-A201 5/45w 2m/5/35w 440 FM amp	159.99
MAH MH-A301 5/50w 2m HT dock boost amp/pre	115.99
MAH MH-A302 5/45/5/35w 2m/440 HT dock boost	165.99
MEA 07522 908B broadband nebula filter	79.99
MEA 20071 DS-70EC 70mm refractor telescope	149.99
MFJ 47C Mailbox 512k memory; 1270/1274	69.99
MFJ 128 12/24 hr analog atomic wall clock ..	59.99
MFJ 203 160-10m bandswitched dip meter ..	49.99
MFJ 206 Antenna current probe	49.99
MFJ 394 Boom mic/single headphone	59.99
MFJ 442X SlimLine keyer only	59.99
MFJ 451X Morse keyboard interface only	64.99
MFJ 722 SSB/CW notch filter	49.99
MFJ 940A 10m ant tuner/SWR/wattmeter	59.99
MFJ 8400W 2m receiver wired	49.99
MFJ 9115B 9015 Xcvr/tuner/ps/ant pack	249.99
MFJ 9117B 9017 Xcvr/tuner/ps/ant pack	229.99
MFJ 9120B 9020 Xcvr/tuner/ps/ant pack	269.99
MIR B-2516G 2m FM/SSB 25/160w amp/pre	249.99
MIR C-2522G 220 FM/SSB 25/200w amp/pre	519.99
MIR C-5012G 220 FM/SSB 50/120w amp/pre	249.99
MIR C-5022G 220 FM/SSB 50/200w amp/pre	479.99
MIR KP-2/10M 10m mast mount preamp	139.99
MOT 53543 Camouflage TalkApt 250 FRS	59.99
MOT 53547 2w grey TalkAbout Distance DPS GMRS ..	179.99
MSQ EB-144 2m Eggbeater antenna	149.99
MSQ EB-432 432 Eggbeater antenna	138.99
NCG RP-150 20A variable ps/lighted mtrs/fan	69.99
NCG RP-300 30A variable ps/lighted mtrs/fan	99.99
PLY CS6-75 75' 6" copper strap	189.99
PLY IS-IE50LU-C1 50-500 dx 375/125w bulkhead	69.99
SGC 04-12 Remote kit w/swivel bkt & cable ..	129.99
SGC 04-13 Remote kit w/5-way mt & cable ..	219.99
SGC 52-32 Carbon telephone handset	99.99
SGC 54-16 SmartPro 200w 1.6-30 12v tuner ..	399.99
SGC 54-70 DC coaxial line isolator; SGC tuner ..	69.99
SON ICF-SW1000TS AM/FM/SW Rcvr/tape/ANLP1 ..	399.99
TIM DSP-RTTY RTTY prog; DSP-599zx/59Y	49.99
TRI MT-6+ 6 out console surge suppressor ..	49.99
UNI PRO-350XL 40 ch handheld CB	49.99
VEC PS-50F 35A power supply, 50A surge	129.99
YAE FAS-1-4R Remote antenna selector	129.99
YAE FC-1000 HF wire tuner; FT747/757/767 ..	149.99
YAE FEX-736-1.2 1.2 GHz module; FT-736R ..	539.99
YAE FEX-736-50 6m module; FT-736R	279.99
YAE FEX-736-220 220MHz module; FT-736R ..	309.99
YAE FNB-4A 500ma 12v battery; 09-series ...	62.99
YAE FNB-38 600ma 9.6v battery; FT-11/51R ..	69.99
YAE FS-10 Deluxe mic for FT-8500	79.99
YAE FTS-22 CTCSS decode unit; FT-8100R	68.99
YAE FTS-27 CTCSS decoder unit; FT-100	47.99
YAE MH-27A8J TTP mic/modular plug; early 2500M ..	60.99
YAE MH-27B8 8-pin TTP mic; FT-5200/6200 ..	65.99
YAE MH-29A2B LCD disp spkr/mic; 530/51R ..	49.99
YAE MH-39A6J Regular mic for FT-8500	49.99
YAE TCXO-2 TCXO unit; FT-990	49.99
YAE TCXO-8 TCXO unit; FT-100	69.99
YAE XF-110C 500Hz CW filter; FT-900	49.99
YAE XF-110S 2.6KHz SSB filter; FT-900	129.99
YAE XF-117C 500 Hz CW filter; FT-100	69.99
YAE XF-455M6 600Hz CW filter; FT-650	49.99
YAE YSK-8100 Rem separation kit; FT-8100R ..	69.99



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- Variable RF Front-End Filter
- Selectable SSB pattern-Contour Filters
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+ in the equipment description indicates the unit has additional accessories or options installed.

** Indicates item selling "as-is"

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AEA	DP232 TNC**.....149.99m
ALINCO	DJ546 FRS RADIO.....39.99m
	DM340MVT PWR SUPPLY.....151.99f
	EBC93 MOUNTING BRKT.....24.99f
	EDC63 CHARGER.....14.99m
	EDX2 HF AUTO TUNER.....249.99m
AMFRITRON	AL800 HF AMP (refurb).....1,299.99c
	AL811 HF AMP.....479.99m
	AL811H AMP.....599.99m
	ARB7021 RELAY/ICOM.....24.99f
AOR	AR168 RCVR.....159.99m
	AR3000A RCVR.....759.99c
	AR8200 RCVR.....349.99m
	AR8200B RCVR/CASE.....399.99c
	AR8200MKIIB RCVR.....379.99c
	AR8600 RCVR (cell bldk).....695.99c
ASTRON	VS35M 25A VAR. P/S.....149.99m
AZDEN	LC16 CASE.....12.99c
B&K	820 DIGITAL CAP METER.....199.99m
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CUSHCRAFT	220SK STACKING KIT.....19.99m
DAIWA	CN410M 3.5-150 MOB MTR 79.99f
DIAMOND	SG200C WATTMETER.....71.99f
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GAMBER JOHNSON	SS100 SLIDE MOUNT.....49.99m
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	AD28 ADAPTER.....14.99c
	AD56 ADAPTER.....14.99c
	AD56 BATT ADAPT/CHARGER.....9.99f
	AT150 100W AUTO TUNER.....289.99f
	BC110A CHARGER.....19.99f
	HM77A DTMF MIC.....79.99mf
	IC271A 2M FM/SSB+.....449.99cf
	IC575A 6M/10M XCVR.....799.99m
	IC725 HF XCVR.....449.99m
	IC725 HF XCVR/FM/KEYER.....479.99c
	IC726 HF XCVR.....469.99c
	IC728 HF XCVR.....489.99cf
	IC728 HF XCVR/FL100.....499.99v
	IC729 HF/6M XCVR/FM.....699.99mf
	IC729 HF/6M XCVR/FM/TONE.....699.99m
	IC735 HF XCVR.....499.99m
	IC737 HF XCVR.....529.99mv
	IC738 HF XCVR.....699.99mcv
	IC738 HF XCVR/UT30.....719.99v
	IC738 HF/FL53A/FL101.....729.99m
	IC746 HF/VHF XCVR.....1,029.99mf
	IC746 XCVR/UT102.....1,049.99m
	IC756 HF XCVR.....1,199.99m
	IC820H 2M/440 FM/SSB.....699.99m
	LC117 CASE/IC2GXAT.....15.99m
	LC147 CASE.....19.99m
	MB62 BRACKET.....15.99m
	MB63 BRACKET.....14.99m
	MB65 MOUNT.....29.99m
	OPC587 SEPERATION KIT.....64.99m
	PS15 POWER SUPPLY.....119.99m
	PS55 POWER SUPPLY.....129.99m
	PS85 POWER SUPPLY.....149.99mf
	R7000 RCVR.....899.99f
	R7000 RCVR/RC12.....919.99m
	R71A PBT SWL RCVR.....599.99mf
	R71A PBT SWL RCVR/EX257.....619.99c
	R71A RCVR/RC11/EX257+629.99f
	R71A SWL RCVR/EX310.....609.99m
	R7100 COMM RCVR.....899.99cfv
	R75 SWL RCVR.....459.99cf
	SM6 DESK MIC.....79.99mc
JPS	NIR10 DSP FILTER.....149.99m
KENWOOD	MC85 DESK MIC.....99.99f
	MC90 DESK MIC.....169.99f
	PG36 BATTERY.....9.99m
	PG2Y DC CORD.....29.99f
	PG4M EXT CABLE, AT50.....19.99m
	PS30 POWER SUPPLY.....119.99m
	PS40 20A SWITCHING PS.....124.99f
	PS50 POWER SUPPLY.....169.99m
	PS52 POWER SUPPLY.....189.99c
	R5000 RCVR (scratched).....529.99m
	R5000 SWL RCVR.....549.99mcv
	R5000 SWL RCVR+.....599.99v
	R5000 RCVR/YK88A1+.....574.99m
	SP230 SPEAKER.....69.99f
	TMG707A 2M/440 XCVR.....239.99m
	TR751A 25W 2M XCVR.....299.99m
	TS120S HF XCVR.....229.99m
	TS520SE/CW FILTER**.....399.99m
	TS570D(G) HF/YK88C1.....879.99f
	TS570S XCVR/YK88C1.....919.99m
	TS570S XCVR/YK88S1.....919.99m
	TS690S HF/6M XCVR.....649.99m
	TS711A 2M SSB/FM XCVR.....549.99cfv
	TS711A 2M/VS1/UT5.....559.99m
	TS811A UHF XCVR.....489.99mcv
	TS811A UHF/TONE TU-8.....499.99mv
	TS811A XCVR (scratched).....469.99m
	TS830S HF XCVR.....449.99m
	TS830S HF XCVR/YG455C.....449.99m
	TS850S HF XCVR.....799.99c
	TS850S HF XCVR/DRU2.....829.99m
	TS850S/AT HF XCVR.....849.99f
	TS930S HF XCVR/YG455C.....749.99f
	TS940S HF XCVR.....799.99f
	TS940S/AT HF/YK88C1+.....949.99m
	TS940S/AT HF/YK88C1.....929.99m
	TS950S HF/4 FILTERS.....1,279.99m
	TS950SDX/YG455CN1+.....2,774.99f
	VFO700S REMOTE VFO**.....79.99m
LOG	AT11MP TUNER.....174.99m

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Please be aware that there may be instant coupons that apply to Demo equipment which are not reflected in the displayed price. Coupons will be applied to your final total. Ask a salesman for coupon availability. Used Equipment policies do not apply to Demo equipment

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	407C ELECTRONIC KEYS.....59.99f
	4112 POWER PACK.....49.99f
	5106 6PIN MINI - OPEN END.....3.99m
	752C SSB/CW FILTER.....69.99f
	916 2M/440 DUPLEXER.....26.99f
	924 440 TUNER.....49.99f
MIRAGE	B23 2M AMP.....80.99f
	B23G 2/30W 2M AMP.....89.99f
	KP2/2M PREAMP.....129.99f
MOTOROLA	53834 T5200 FRS HT.....29.99f
NCG	MH900PK EAR/MIC.....29.99c
PACCOMM	TINY2MKII TNC.....120.99f
PAL	PF300 AUDIO FILTER.....69.99m
	PT340 TUNER-TUNER.....79.99m
PREMIER	PMC200 DESK MIC.....99.99f
RF CONCEPTS	223 2M 2/30W AMP.....80.99f
RMS	CN220 WATTMETER.....89.99f
SGC	PS30 POWER SUPPLY.....319.99c
	0502 SG2020 HF/ADSP.....636.99c
	0410 SG2000W/DSP/PT.1,479.99f
	0410 SG2000/POWER.....1,249.99c
	5547 QMS2 SG230/303.....699.99f
SONY	ACE604 AC ADAPTER.....14.99m
	CFSW7600G AM/FM/SW RX.....144.99v
	ICF2010 SWL RCVR.....259.99f
STANDARD	C108A 2M HT**.....99.99c
	C12080A 2M XCVR.....359.99c
	C188A 2M HT**.....99.99f
SVETLANA	811A TUBE**.....9.99f
UNIDEN	SC150 SCANNER**.....117.99c
	WASHINGTON CB.....179.99f
VETRONICS	CK200 KEYSER/NO MANUAL.....53.99c
VERTEX	MD11A8S MIC MODULAR.....69.99f
VIBROPLEX	EK1 KEYSER/PADDLE.....69.99f
YAESU	ATBK100 ANTENNA BRKT.....79.99m
	CA10 CHG SLEEVES.....9.99mc
	CSC29 SOFT CASE.....14.99c
	EDC5B DC ADAPT/FILTER.....14.99f
	FBA3 CHARGING SLEEVE.....19.99c
	FBA8 BATTERY HOLDER.....29.99f
	FBA8/NC26B PACKAGE.....34.99m
	FP700 POWER SUPPLY.....179.99f
	FT100 HF XCVR.....599.99m
	FT100D HF XCVR.....699.99f
	FT1000D HF XCVR.....1,829.99m
	FT1000MP DSP XCVR.....1,679.99v
	FT650 10/12/6M XCVR.....999.99f
	FT690R MKII 6M XCVR/TTP349.99m
	FT726R 2M XCVR/430/HF.....624.99f
	FT747GX (HEATH SB1400).....449.99f

AL80B 1KW PEP AMP.....1,079.99f	AL82 AMP.....1,889.99f	ARB700 RELAY.....24.99f	ARB702Y AMP RELAY.....34.99m	AWM30 METER.....124.99f	QSK5PC PC BD T/R SWITC.....195.99m	ANTENNA SPECIALISTS	AP143 2M ANT.....62.99c	ANTENNAS AMERICA	HVA146 2M DECAL ANT.....59.99m	AOR	AR16B RCVR.....179.99mv	AR3000A RCVR.....909.99f	AR3000A RCVR/NO ANT.....899.99m	AR8200B RCVR.....429.99m	AR8200MKIIB RCVR.....494.99v	ARAL	300 13-14 COPE TAPES.....3.95v	345 WORLD MAP.....7.00v	ASTATIC	TUG9 MIC STAND.....42.99m	TUG9D104 MIC.....84.99m	ASTRON	RS20A POWER SUPPLY.....89.99m	RS35M POWER SUPPLY.....149.99m	RS35M (scuffed).....139.99m	SS25 POWER SUPPLY.....89.99m	SS30 POWER SUPPLY.....99.99m	VS35M POWER SUPPLY.....169.99m	AZDEN	HS03 HEADSET.....39.99f	PTT01 PTT SWITCH.....12.99mf	B&K	114A MULTIMETER.....34.99m	AS160 ANTENNA.....139.99c	AS40 40-10 TRAP DIPOLE.....139.99cfv	BWD1.8-30 FOLD DIPOLE.....179.99v	BAYDEN	FPA3 DC ADAPTOR.....9.99mv	BELDEN	9356 100'/RG8U/PL-259S.....80.99c	BENCHER	BY3 KEY.....249.99m	ST1 SINGLE PADDLE.....89.99m	BIRD	4240165 ADAPTER.....19.99m	80F LOAD.....2.99m	BUSHNELL	121025 10x25 BINOCULARS.....89.99m	131250 12X50 BINOCULARS.....54.99m	177351 7X35 BINOCULARS.....44.99m	BUTTERNUT	CPK COUNTERPOISE KIT.....116.99c	CABLE XPERTS	CXP08XC100 100' RG8.....26.99v	CEC	SSI68 PATCH.....199.99m	CHANNEL MASTER	5095A ANTENNA.....14.99m	9515A ROTOR/KNOB.....99.99m	9521 ROTOR/REM CONT.....89.99v	CHEROKEE	AH27 CB HT/NO MANUAL.....97.99c	AH27F CB HT.....107.99c	AH50SF 6M HT**.....99.99m	COAXIAL DYNAMICS	81000A SWR METER.....224.99m	COBRA	FRS200 FRS.....34.99m	HH37ST CB.....54.99m	IOSOSKIT CB.....39.99f	10ULTRAAT CB XCVR.....29.99m	COMM SPEC	DTD-1 DTMF DECODER.....44.99c	CUMET	CF360A DPLXR/LEADS.....62.99v	CF413A DPLXR.....69.99v	GR5M TNK LIP MT W/COAX.....60.99mv	RS730 MOUNT.....26.99m	CONNECT SYSTEMS	CS800 PATCH.....249.99m	COURIER	PROCOMM/C HT.....99.99m	U22A UHF HT.....79.99mf	U22B UHF HT.....79.99m	CUSHCRAFT	A44911S ANTENNA**.....62.99c	A148SK HARNESS.....39.99v	R80 KIT.....75.99v	DIAMOND	K540KM MIR/LUGGAGE MT.....53.99v	K550KM LUG MT/SO239.....62.99v	K601M MOUNT.....62.99cfv	K601NMO MOUNT.....59.99mcv	K9000LRM MOUNT.....89.99m	SG7000A 2M/440 ANT.....63.99v	SG7500NMO 2M/440 ANT.....71.99c	SX1000 PWR/SWR METER.....189.99m	SK20C HF/6/2 PWR/SWR.....80.99c	V2000A 6M/2M/440 ANT.....146.99c	X5000HA ANT.....219.99m	DIGIMAX	D500 COUNTER.....109.99f	EMERSON	EAN3400 TV ANTENNA.....44.99f	EV55000 A/V XTNDR.....69.99m	GARMIN	GPS12CX GPS.....239.99m	GPS38 GPS RCVR.....149.99f	GENESYS	T05K THROAT MICROPHONE.....39.99m	BROTHER	VS3 PA/HORN.....69.99m	VS4 SIREN.....124.99m	GRUNDIG	G2000A SW RCVR.....89.99m	SATELLIT 800 SW RCVR.....449.99f	TRAVELLER II SW RCVR.....49.99mc	TRAVELLER III DIG SWL RX.....89.99c	YACHTBOY 400PE SW RX.....134.99fv	HAL	DXP38 TNC.....359.99m	HEIL	HMMIC HNDMC (ICOM).....52.99v	AD1Y 8-PIN CABLE (YAESU).....14.99v	CC1K 8-PIN CABLE (KENW).....27.99v	GM5 GOLD LINE MIC/HM5.....126.99v	HMI MICROPHONE (ICOM).....84.99m	HMP MIC PREAMP (ICOM).....24.99m	MA1 ADJUST MIC BOOM.....39.99m
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This Used & Demo Equipment inventory is as of 3/11/02

A current list is available at www.aesham.com or CALL Toll Free

DEMO EQUIPMENT - CONT.

HUSTLER	
G71504 2M ANTENNA.....	179.99m
MO1 MAST/NEW/NO BOX.....	28.99m
MO2 MAST.....	27.99m
RM40S 40M RESONATOR**.....	25.99f
RM40S/BENT TIP ROD**.....	19.99m
RM75S RESONATOR.....	39.99m
HYGAIN	
HYGAIN HAMIV ROTOR.....	479.99m
HYGAIN T2X ROTOR.....	559.99f
ICOM	
AD51 CHARGE ADAPT.....	9.99mv
AD81 ADAPTER.....	12.99m
AD81 CHARGE ADAPTER.....	12.99f
AD87 CHARGE ADAPTER.....	7.99m
AH7000 25-1300 MHZ ANT16L.....	199c
AI180 TUNER.....	359.99m
BA12 ADAPTER.....	19.99f
BC119(11) DESK CHGR.....	80.99cfv
BC119(31) DESK CHGR.....	89.99c
BC127A CHARGER.....	18.99m
BC135 CHARGER.....	69.99m
BC79 CHARGER.....	119.99c
BP121 BATTERY.....	34.99v
BP132 BATTERY.....	79.99m
BP157 BATTERY.....	59.99c
BP173 BATTERY.....	124.99m
BP197 BATTERY.....	19.99m
BP198 BATTERY.....	49.99m
BP5 5W BATT.....	71.99f
CK70 DC CABLE.....	35.99c
CP12L NEW/NO BOX.....	32.99m
CR282 HI STAB CRYSTAL.....	134.99m
CSWHH4 SOFT W/CABLE.....	45.99c
CSWHXR SOFTWARE.....	44.99m
CSWR10 SOFTWARE.....	40.99c
HM12 HAND MIC.....	67.99v
HM46 SPK/MIC.....	39.99mf
HM77A MIC.....	109.99v
HM90A WIRELESS MIC.....	119.99m
HM92A MIC.....	89.99m
HM95 MIC.....	79.99v
HS10SA HEADSET.....	59.99m
HS51 HEADSET.....	84.99m
HS85 HEADSET.....	79.99m
ICQ7ABC 2M/440 HT.....	114.99m
ICT2HSPT 2M HT.....	89.99m
ICT22A HT/SPKR-MIC+.....	259.99v
ICT22A 2M 1.5W HT.....	206.99mcfv
ICT17H 2M/440 HT.....	179.99m
ICT81A 6/2/440HT.....	249.99m
ICV8 2M HT.....	119.99m
IC2GXT 2M 3W HT.....	189.99c
IC2GXT/HP 7W 2M HT.....	224.99c
IC718/HF XCVR/UT102.....	589.99m
IC775DSP XCVR.....	2,699.99c
LC125 CASE.....	27.99v
LC137 CASE.....	34.99c
LC148 CASE.....	22.99c
MB65 BCKT.....	29.99m
OPC184 POWER CORD.....	24.99m
OPC598 CABLE/AT180.....	65.99v
PS85 POWER SUPPLY.....	239.99m
R10(05) RCVR.....	249.99m
R3 RCVR.....	314.99c
RB500 RCVR.....	1,289.99f
SM8 DESK MIC.....	149.99m
SP20 SPKR/AUDIO FILTER.....	224.99v
UT28 DIG CODE SQUELCH.....	19.99f
UT63 BOARD.....	14.99m
IDIDM PRESS	
HK-3 HOOK UP KIT.....	9.99v
K-3 LOGIKEY CW KEYS.....	116.99v
ISOTRON	
40 40M ANTENNA.....	79.99m
NIR10 FILTER.....	169.99mf
NRFT FILTER.....	129.99m
KANTRONICS	
HOSTMASTERII+ V3.4.....	80.99c
KAM98 TNC.....	359.99mv
KPC3+/128K TNC.....	169.99m
KPC9612UPGRADE ONLY.....	19.99m

204B ANTENNA BRIDGE.....	71.99f
281 SPEAKER.....	11.99m
297 DESK MICROPHONE.....	62.99c
392 HEADPHONES.....	14.99m
4035MV DELUXE 30A P/S.....	126.99v
411 CODE TUTOR.....	24.99m
4114 POWER PACK.....	59.99m
422D KEY/KEYER COMBO.....	139.99m
44 SCOPE TUNE.....	13.99c
447 SLIMLINE KEYS.....	71.99v
458 128K RAM 1C.....	9.99f
452 CW KEY BOARD.....	114.99m
461 CODE READER.....	69.99c
490 KEYS/PAD COMBO.....	164.99m
490X KEYS.....	89.99m
498X KEYBOARD KEYS.....	134.99m
5063 CABLE.....	9.99m
5080 MFJ-YAE 8P CBL.....	9.99m
5084 TNC/ICO 8P.....	13.99m
5086 TNC-8-PIN CBL.....	12.99v
5086YH KAM HF KEN 8P.....	12.99v
5162 PATCH CABLE.....	3.99c
5383K INTERFACE CABLE.....	44.99v
5383Y YAE INTERFACE CBL.....	35.99v
6413 CHARGER.....	44.99m
641K BATTERY CHARGER.....	44.99mv
751B CW AUDIO FILTER.....	62.99c
815 HF/6M SWR METER.....	71.99f
817 2M/440 PWR/SWR MTR.....	80.99c
9017 5W 17M CW XCVR.....	119.99f
9130B 5W 30M PACKAGE.....	299.99m
924 440MHZ ANT TUNER.....	62.99v
931 ARTIFICIAL GROUND.....	79.99v
9406X 10W 6M XCVR.....	224.99m
941E TUNER.....	99.99m
945E TUNER.....	89.99m
962D 1.5KW TUNER.....	224.99v
969F HF+6M 300W TUNER.....	170.99mv
MICE	
HFS1 SPEAKER.....	7.99m
MHS11 ADAPTER.....	6.99m
MIDLAND	
22430 THROAT MICROPHONE.....	29.99m
74109 WX/HAZARD RADIO.....	17.99c
74200 S.A.M.E. WX RADIO.....	44.99m
75510 FRS RADIO.....	59.99cf
75510 FRS (BROKEN CLIP).....	49.99mf
75510XLB FRS HT.....	59.99m
MIRAGE	
B215G 2M 2/150W AMP.....	299.99mf
B23 2M 2/30 AMP.....	89.99f
B23G 2M 2/30W AMP.....	119.99v
B2516G 25/160 AMP.....	299.99m
B2518G 25/160 AMP.....	239.99m
B34 2M FM 2/30W AMP.....	63.99c
B5016G 2M 50/160W AMP.....	239.99f
B5018G 2M 50/160W AMP.....	239.99m
B510G 2M 100W AMP.....	188.99c
B56G 2M 5/50W AMP.....	99.99f
KP1/10M 10M PREAMP.....	114.99m
KP1/6M 6M PREAMP.....	116.99f
KP2/10M 10M PREAMP.....	159.99m
KP2/220 220 PREAMP.....	159.99m
MY4 FT10/40/50 ADAPTER.....	8.99f
MOTOROLA	
50988 FRS HT.....	39.99m
53547 2W TALKABOUT/GMRS.....	179.99m
NYE	
330001 MASTER KEY.....	64.99f
OREGON SCIENTIFIC	
WR3300 WX MONI.....	17.99f
WR3300 WX RCVR.....	14.99m
WR8000 WX/HAZ.....	26.99f
WR8800 WX RAD1.....	26.99c
PACCOMET	
PICOPACKET 128K.....	149.99m
PALOMAR	
LA1/HFI COMBO.....	189.99m
P408 1.8-54MHZ PREAMP.....	99.99f
RX200 RX NOISE BRIDGE.....	79.99f
PERIPHEX	
FNB33 BATTERY (YAESU).....	19.99f
PB2S/26S BATTERY (KENWOOD).....	9.99f
PB34 BATTERY.....	49.99f

POUCH	
P5 POUCH.....	13.99v
PREMIER	
PCA-YHF CABLE/8-PIN; YAE.....	8.99v
PMC100 MICROPHONE.....	53.99m
SPM500 THROAT MIC.....	33.99m
SPM700 PALM MIC/EARPHONE.....	14.99c
SPM900 SPEAKER/MIC.....	9.99m
RANGER	
RC11000 /G COMM HT.....	79.99f
RC11000 /R COMM HT.....	79.99f
RC12000 /RB COMM HT.....	79.99f
RC129500X 25W 10/12M.....	224.99f
RC150540X 25W 6M XCVR.....	289.99m
RC16060 XCVR.....	89.99m
RC1900 XCVR.....	99.99m
RF APPLICATIONS	
P2000CW 1.8-30MHz METER.....	152.99f
RED CONCEPTS	
223 2M 2/30W (NEW).....	89.99f
VHF160 2M 1/60W AMP.....	99.99m
RMS	
CN220 HF-220 METER.....	89.99c
SAMLEX	
SEC 1223 23A SWITCH P/S.....	89.99c
SANGEAN	
ATS404 SWL RCVR.....	69.99m
ATS505 SWL RCVR.....	116.99c
ATS818 AM/FM/SW RCVR.....	159.99mcf
ATS818ACS SW RX/TAPE.....	199.99m
FOLDING STERO HEADPHONE.....	6.99v
SGC	
0401 SG2000 HF XCVR.....	1,439.99v
0410 DSP/POWER TALK.....	1,664.99f
5417 SG-231 SMARTUNER.....	476.99mv
5418 TUNER/BOARD ONLY.....	224.99m
5422 SG239 200W TUNER.....	224.99c
7007 POWER CLEAR DSP.....	249.99mv
SHAKESPEARE	
495 MARINE ANT MOUNT.....	15.99v
SOLARCON	
GPK1 GROUND PLANE.....	35.99c
SONY	
AN102 ANTENNA.....	69.99m
ICFB200 AM/FM HANDCRANK.....	44.99m
ICFSW07 SWL RCVR.....	359.99mv
ICFSW100S SWL RCVR.....	314.99m
ICFSW12 SWL RCVR.....	89.99m
ICFSW30 SWL RCVR.....	69.99m
ICFSW33 SWL RCVR.....	134.99m
ICFSW35 SWL RCVR.....	80.99c
ICFSW7600G SWL RCVR.....	149.99f

ICFSW77 SWL RCVR.....	419.99cv
ICF2010 SWL RCVR.....	319.99mv
TE SYSTEMS	
1412G 2M AMPLIFIER.....	259.99m
TERK	
LF20 AV EXTENDER.....	79.99m
TV42 TV ANT.....	69.99m
TV50 AMP IN/OUT TV ANT.....	71.99v
TIMEWAVE	
ANC4 NOISE CANCELLER.....	179.99mf
UNIDEN	
BCT2 SCANNER.....	49.99m
BC147XL7 SCANNER.....	80.99c
BC178XL7 SCANNER.....	79.99m
BC244CL7 SCANNER.....	89.99m
BC60XL7 SCANNER.....	80.99c
BC780XL7 SCANNER.....	314.99c
BC895XL7 SCANNER.....	199.99m
HH955 MARINE HT.....	89.99m
HH985 MARINE HT.....	134.99m
MB780 MT BRACKET.....	8.99v
MC1020 MARINE XCVR.....	124.99m
PRO340XL CB HT.....	14.99f
PRO340XL 40CH PORT CB.....	26.99c
PRO350XL CB XCVR.....	59.99v
SC150 SCANNER.....	143.99c
VALOR	
MM270B ANT.....	44.99m
VAN GORDEN	
8X6ST 6' RG8X/PL259'S.....	9.99v
VANCO	
PHW5 SPKR.....	5.99c
370052 DIG MULTIMETER.....	17.99c
VECTRONICS	
AT100 ACT ANT.....	64.99mv
VHFT1500 3KW TUNER.....	359.99f
HF600QSK AMPLIFIER.....	1,319.99m
HPF1 HIGH PASS FILTER.....	14.99m
PM30UV VHF/UHF MTR.....	79.99v
VERTEX	
VHF LMR HT/ NO CHGR.....	149.99m
VX200X LMR HT/NO CHG.....	199.99m
VX200 LMR HT/NO BATT.....	199.99m
VIBROPLEX	
100 ORIGL PRESENTATION.....	239.99m
WEST MOUNTAIN RADIO	
RIGBLASTER/PLC INTERF.....	125.99c
WINEGARD	
LB2000 DUAL LNB.....	69.99m
SENSOR TV ANTENNA.....	25.99m
X-10	
SP-554A MOTION DETECTOR.....	26.99v

YAESU	
ADMS3 SOFTWARE.....	34.99m
CA10 CHARGE ADAPTER.....	11.99mv
CSC67 CASE.....	16.99v
CSC69 FOR FNB40.....	13.99m
CSC71 CASE.....	14.99m
CT26 MIC ADAPTER.....	14.99m
CT69 MIC ADAPTER.....	26.99c
EDC12 DC ADAPTER.....	34.99m
FBA15 BATTERY.....	14.99m
FBA20 BATTERY PACK.....	17.99m
FBA8 BATT HOLDER.....	34.99f
FC10 TUNER.....	339.99m
FNB31 BATTERY.....	41.99m
FCN42 BATTERY.....	56.99m
FT1000D DLX HF XCVR.....	3,779.99mf
FT1500M 2M XCVR.....	179.99m
FT2600M 2M XCVR.....	189.99m
FT3000M 2M XCVR.....	269.99f
FT33R 220MHz HT.....	269.99c
FT411MKII 2M HT.....	129.99m
FT50RD/41B 2M/440 HT.....	188.99c
FT7100M XCVR.....	399.99m
FT920 HF/6M XCVR.....	1,205.99f
GS232A RSX232 INTERFACE.....	489.99m
G1000DXA HD ROTATOR.....	469.99v
G450A ANTENNA ROTATOR.....	234.99v
G550 ELEVATION ROTOR.....	269.99f
G5400 ROTATOR.....	399.99m
LL5 PATCH.....	114.99m
MH34B4B SPKR/MIC.....	27.99c
MH36E8J MIC.....	54.99m
MH37A4B SPKR/MIC.....	27.99m
MMB60 BRACKET.....	28.99v
NC55B CHARGER.....	11.99v
NC60B ADAPTER.....	9.99mf
NC66B CHARGER/VX1R.....	14.99m
VC22 HEADSET.....	44.99m
VR120 RCVR.....	159.99mcf
VR500 RCVR.....	269.99m
VR5000 RCVR.....	799.99m
VX150 2M HT.....	139.99m
VX5R SW TRI-BAND HT.....	299.99f
VX5RS 6/2/440 HT.....	299.99f
YA007FG ANTENNA.....	79.99m
YF12C CW FILTER.....	107.99v
YF122C FILTER.....	139.99m
YH1 HEADPHONES.....	34.99m
YSK100 SEP KIT.....	69.99f
YSK7100 RMT SEP KIT.....	62.99c
YS60 SWR METER.....	114.99m

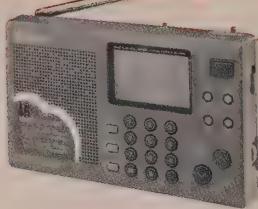


Please used these lists as a guide only...

Used and Demo Equipment Lists are compiled from an actual inventory as of 3/11/2002. However, due to turnover from daily selling and trading, the actual items listed may or not be available.

Each of our stores are linked via computer which allows real time access to our ever changing inventory. For your needs, you may call any of our locations to check for availability or to discuss an alternative with one of our salespersons.

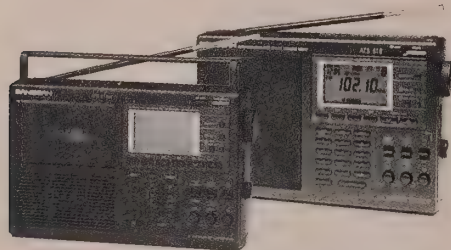
Used and Demo Equipment Lists are also available on our web site and are updated every week. (www.aesham.com)



ATS-404 Full Performance, Full Featured Digital, AM/FM Stereo Shortwave Receiver Continuous coverage (continuously tunes all shortwave bands and any frequency in between). AM reception with 9k/10k switch, FM plus stereo with earphones. Keypad entry and auto and manual search buttons, 45 memory presets, auto memory scan. Illuminated LCD display, tone control, lock-switch. Dual time (12/24 hour) clock and adjustable sleep timer with new Human Wake System. Carrying case and stereo earbuds included. Uses four "AA" batteries. 6.5" w x 4" h x 1.25" d.. **\$89.99**



ATS-505 Professional Digital Multiband Receiver AM/FM stereo/shortwave and SSB reception • Continuous coverage (tunes all shortwave bands and any frequency in between) • Auto memory scan (45 presets, plays each in sequence) • Auto preset system, determines all memory presets based on signal strength of station • Fine tuning • 9/10kHz switch • Lockswitch • Tone control • Local/DX switch • Dual time clock, adjustable sleep timer and Human Wake System with repeating beep tone (volume increases every 15 sec.). Includes carrying case and earphones..... **\$129.99**



ATS-818CS (left) World Band Receiver with Programmable Cassette Recorder 16 bands, continuous coverage 50kHz to 30MHz. AM/SSB/CW/FM modes; stereo via headphones, 45 memory presets. Tuning methods: Direct input, auto or manual scan, memory recall, rotary dial. AM wide or narrow filter, tone and RF gain controls, signal strength and battery indicator. Programmable cassette recorder, play and record LED indicator, auto-stop feature. Clock with dual time display, alarm and sleep timer. Uses seven "AA" batteries (not included). Includes AC adapter and external antenna adapter. 11.5" w x 7.75" h x 2.75" d, 5 lbs **\$229.99**

ATS-818 (right) World Band Receiver All features above, w/out cassette recorder **\$179.99**



ATS-606A Compact Digital All-Band World Receiver (left) Continuous all-band coverage 153 kHz-30MHz. AM/FM (FM stereo with earphones). 54 memories, manual or keypad tuning, 1kHz/step fine tuning, scanning, LCD display. Dual time clock and sleep timer. 5.75" w x 3.5" h x 1.25" d. **\$149.99**

ATS-909 FM-Stereo/MW/LW/SW PLL Synthesized Receiver (right) Five tuning methods: Direct frequency, Autoscan, Manual, Memory recall and Rotary, 307 memories. Stereo via earphones, SSB reception. MW 9k/10k switch. AM wide/narrow filter and FM mono/stereo selector. Dual time with three timers and sleep timer. Clock feature displays 42 city times. RF gain/tone controls. Lock switch, recorder output jacks, battery and signal strength indicator. Uses 4 AA batteries or 6V DC; AC adapter incl. 8.5" w x 5.375" h x 1.375" d, 1.9 lbs... **\$269.99**

DT-200V Broadcast and TV Band Receiver (left) Fits in shirt pocket or clips to belt. Covers AM and FM broadcast bands (FM stereo via headphone), plus the audio portion of TV channels 2 to 13. LCD display, up and down tuning buttons, auto-scan, 19 memories, automatic shut-off, built-in speaker. Belt clip and stereo earphones included. Uses two "AA" batteries. 4.375" h x 2.625" w x .75" d, 5 oz..... **\$69.99**

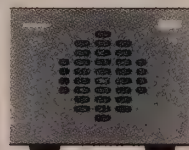
DRAKE



R-8B Communications Receiver Covers 10kHz-30MHz (35-55MHz, 108-174MHz w/optional VHF converter) • Dual VFOs • 1000 memories • Multi-function scan • AM/FM/RTTY/CW/LSB/USB modes • 5 voice bandwidth filters • Built-in receive pre-amp/attenuator and noise blanker • S-meter • Pass-band offset • Selectable AGC • Built-in speaker • Multiple antenna inputs • Sequential tuning • 3 selectable tuning step sizes • Keypad entry of mode & bandwidth • Selectable sideband • Synchronous AM detector • RS-232 computer control • Speaker/recorder connections • Multi-voltage power supply • 13.5" w x 5.25" h x 13" d, 13 lbs **\$1379.99**



1590 VHF Converter (left) 35-55MHz and 108-174MHz..... **\$249.99**



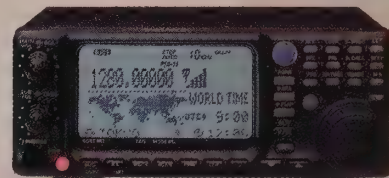
MS-8 External Speaker (right) for R-8B.... **\$49.99**



VR-500 High Performance Mini Receiver General coverage 100kHz-1300MHz (cell blocked) • CW, SSB, LSB and USB, AM and FM wide/narrow modes • Includes AM/FM broadcast, HF shortwave up to 16MHz, VHF/UHF TV bands, VHF AM aircraft band, and a wide range of commercial/public safety frequencies • Keypad entry • 1000 memory channels • 100 "skip" memories • 10 search memories • 100 dual watch memories • Priority • Powered by 2 "AA" alkalines or 9-16V DC • 2.2" w x 4.2" h x 1" d, 7 oz **\$249.99**



FRG-100B High Performance Communications Receiver Covers 50kHz-30MHz – CW, SSB, AM modes; FM optional. 50 tunable memory channels and two band edge memories. Multi-function scanning. Adjustable SSB carrier offset, selectable AGC rate, noise blanker, all mode squelch, RF attenuator, twin 12 and 24 hour programmable clocks with on/off timer and sleep-timer, CAT system for PC control. Bright backlit LCD readout with adjustable control. 120/240 VAC or 12-14VDC @ 1.2A 9.375" w x 3.5" h x 9.5" d, 6.6 lbs (See Price Guide for optional filters and high-stability oscillator)..... **\$599.99**



VR-5000 Multimode Scanning Receiver Continuous frequency coverage from 100kHz to 2.6GHz (cellular blocked) • Direct keypad frequency entry and a wide variety of scanning capability • 2000 memory channels, 100 memory banks with alphanumeric labels • Dual receive • Bandscope graphical activity monitor • "Smart Search" automatic memory loading feature • World clock with time zone map • 13.5VDC @ 0.7A • 7.1" w x 2.75" h x 8.0" d, 4.2 lbs..... **\$699.99**



VR-120 Mini Communications Receiver Provides general coverage receive from 100kHz-1299.995 MHz (cell blocked) on AM/FM wide and narrow modes; includes AM and FM broadcast, HF shortwave bands, VHF/UHF TV bands, VHF AM aircraft band, and a wide range of commercial and public safety frequencies. • Rugged outdoor-ready case construction • Ultra-long battery life • BNC-type antenna connector • Straight-forward 4-button operation • Easy access, wide-band coverage • Special "preset mode" aids in quick tuning • Super simple one-touch memories • Versatile 640 channel memory system • Wide selection of scanning modes • 3.3" h x 2.3" w x 1" d, 6.9 oz **\$129.99**

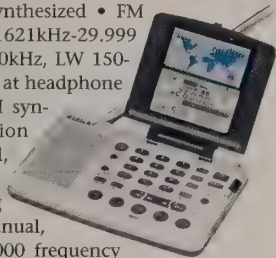
SONY



WORLD BAND RADIOS

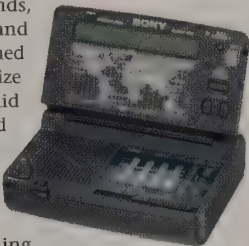
ICF-2010 PLL synthesized • Range: 150kHz-30 MHz, 76-108MHz FM and 116-136MHz air band • 32-station memory • Manual, auto and memory scan tuning • SSB/CW and AM synchronous detection • Switchable IF bandwidth • Programmable timer • Built-in clock with alarm, standby and sleep timer • Requires 4.5V DC or three "D" cells • Includes 120V adapter, earphone, SW external antenna, connector and handbook • 11.3"w x 6.3"h x 2.1"d, 3.75 lbs..... **\$359.99**

ICF-SW07 PLL synthesized • FM 76-108MHz, SW 1621kHz-29,999 MHz, MW 530-1620kHz, LW 150-529kHz • FM stereo at headphone jack • SSB/CW, AM synchronous detection • SW station call, my-memory tuning plus 4 other tuning methods: direct manual, scan or preset • 3000 frequency memories • One-push access to 8 major stations (BBC/VOA/DW, etc.) • Editable station labels • 24-city name/time display • Built-in timer • Clock with sleep timer and alarm • Requires 3 VDC or 2 "AA" batteries • Includes external active antenna module, AC adapter, stereo earphones, leather case • 5.3"w x 1.2"d x 3.6"d, 9.1 oz..... **\$399.99**



ICF-SW11 Compact • 12 bands including FM stereo, MW, LW and SW bands 1-9 • Easy analog tuning with LED indicator • FM stereo headphone jack for private listening in noisy environments • DC in-jack for optional AC adapter • 6.5"w x 3.75"h x 1.3"d..... **\$49.99**

ICF-SW12 11 bands, including FM, AM and SW bands 1-9 • Designed for travel - compact size with protective lid • World time clock and universal time coordinator to calculate time in cities worldwide • Backlit LCD display • LED tuning Indicator for precise center-frequency indication and accurate tuning • Built-in alarm with convenient snooze button • Requires 2 "AA" cells • 4.3"w x 3.1"h x 1.2"d..... **\$99.99**



ICF-SW35 PLL synthesized, dual Conversion super hetrodyne • Range: AM (530-1710 kHz), FM (76-108MHz) • FM stereo at headphone jack • Shortwave from 2250kHz-26.1MHz • UP/DOWN tuning buttons 1kHz/5kHz tuning steps in short-wave • 50 memory presets (5 banks of 10 presets each) • 1 or 5 kHz step tuning on SW • Memory scan • Built-in digital clock with two wake times and 60-minute sleep timer • Dial illumination button, lock switch, attenuator • 2.5" speaker plus earphone jack • Includes cloth protector and SW guide • Requires 3V DC or two "AA" cells • 6.7"w x 4.5"h x 1.4"d, 16 oz **\$89.99**



ICF-SW40 PLL synthesized • Analog/digital tuning • 14 bands • Range: LW/AM/SW (3850kHz-26.1MHz) and 76-108MHz FM (FM stereo-to-headphone jack) • 20 station memory presets • 1kHz step tuning • Built-in clock with dual standby function • 6.75"w x 4.25"h x 1.6"d, 15 oz..... **\$129.99**



ICF-SW77 PLL synthesized • Electronic rotary tuning • Preset, 10-key direct, manual and scan tuning • 150kHz-30MHz and 76-108MHz (FM stereo-to-headphone jack) • 50Hz tuning steps • Clock display • 5-event programmable timer • Sleep timer • 162 memory presets with station name tuning • SSB/CW and AM synchronous detection • Backlit LCD display • World time scale • Large, 5"x 3" speaker • Requires four "C" cells • Includes 120V adapter, earphones, belt and wind-up antenna • 10.8"w x 6.8"h x 1.8"d, 3.3 lbs..... **\$469.99**

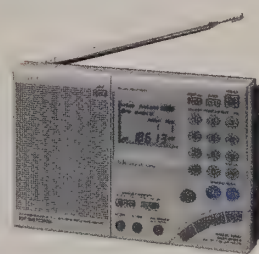
ICF-SW100S PLL synthesized • About the size of an audio cassette - ideal for travel • 24 city name and time display • Range: 150kHz-30MHz and 76-108MHz FM (stereo-to-headphone jack) • 1kHz step tuning • 50 station memory presets • Editable station labels • Auto scan, manual and 10-key direct access tuning • Built-in clock with sleep timer and dual standby • Includes stereo headphones, 120 VAC adapter, active antenna and soft carrying case • Requires 3V DC or two "AA" cells • 4.3"w x 0.9"h x 2.8"d, 8 oz..... **\$349.99**



ICF-SW1000T PLL synthesized • 1 kHz step tuning • 130kHz-30MHz and 76-108MHz FM (stereo to headphone jack) • Built-in stereo cassette recorder with auto-reverse and timer record • SSB and synchronous AM detection • 32 memory presets • Built-in clock with alarm, dual standby and sleep timer • Requires 3VDC or 3 "AA" cells • Includes vinyl case, stereo earphones, hand strap and wind-up antenna • 7"w x 4.25"w x 1.6"d, 1 lb. **\$399.99**

ICF-SW7600GR

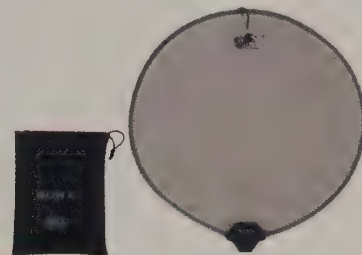
PLL synthesized • Manual and auto scan 1kHz step tuning • 10-key direct access tuning • 150kHz-30 MHz & 76-108 MHz FM • Dual conversion super-het • SSB/CW and AM synchronous detection • Multi-function LCD digital readout • Dial light and LED tune indicator • Built-in clock with sleep timer and dual standby functions • Record output jack • 9/10kHz MW tuning switch • External antenna jack • Large 3" speaker • Requires 6V DC or 4 "AA" cells • Hold button preventing accidental changes to presets • 100 station memory presets • World time/dual clocks • Includes vinyl case, wind-up antenna and handbook • 7.6"w x 4.75"h x 1.3"d, 1 lb., 5.5 oz..... **\$179.99**



Look For This

NEW

& Check Out AES' Latest Additions.

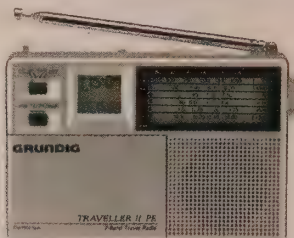


AN-LP1 Active Antenna Enhances sensitivity for clearer reception of even weak signals. • Light weight • Provides high sensitivity and noise reduction • Active antenna controller with rotary tuning • 19" loop that folds to 7" for portability • Easy to mount • Includes soft carrying case..... **\$89.99**

GRUNDIG



G-2000A Porsche Design Shortwave Radio Designed for Grundig by F.A. Porsche, This radio has a titanium finish look with a genuine leather case that closes around the radio like a book and serves as a stand. • Ranges: (FM) 87.5-108MHz; (MW) 530-1710kHz; (SW) 2.3-7.4 and 9.4-26.1 MHz • Modes: AM, FM-stereo (with earphones) • Illuminated multifunction LCD display • Digital keypad and Up/Down manual tuning • 20 user-set station memories • Clock with 12 or 24 hour selectable format, alarm (radio or buzzer) and sleep timer (10-90 minutes) • Built-in telescopic antenna for FM/SW and ferrite bar for AM • Includes a leather case, earphones, requires 3 AA batteries • 5.5" x 3.5" h x 1.25" d, 7.2 oz..... **Milwaukee only \$99.99**



TRAVELLER II P 7-band Worldtime Travel Radio Compact size, outstanding performance. AM, FM and five international shortwave bands. A dual clock simultaneously displays local time and other major cities, world wide. Titanium finish look. • (FM) 88-108MHz; (MW) 530-1600kHz; (SW) 49, 41, 31, 25 and 19M • Modes: AM, FM • Manual tuning • LCD clock display • Analog tuning dial • Dual time clock with alarm and sleep function • Built-in telescopic antenna for FM/SW and ferrite bar for AM • Includes earphones, 3 AA batteries, soft pouch and Shortwave Listening Guide • 5.5" x 3.5" h x 1.25" d, 10 oz **Milwaukee only \$49.99**

E-TRAV VII

E-Traveller Digital Radio Only 4.5" x 2.563" x 0.875" and weighing 5.3 oz. Sleek, design that fits into a pocket, briefcase or purse. Titanium color with black accents, combined with rich, rubberized side panels. Superior dual conversion super-heterodyne circuitry for optimal sensitivity and selectivity. • (FM) 87.5-108MHz; (MW) 530-1710 kHz; (SW) 2-30MHz continuous coverage • Modes: AM, FM-stereo (with earphones) • Up/Down digital controls with auto-scan and manual tuning • 30 memories with scan • 12/24-hour selectable format clock, alarm and sleep timer • Built-in telescopic antenna for FM/SW and ferrite bar for AM • Includes a carrying pouch, 2 AA batteries, Shortwave Listening Guide **Milwaukee only \$129.99**



AR-8200 MK II-B All-Mode Wide-Band Modular HT Receiver • 500kHz-2040MHz (cell blocked) • 1000 memories • Alphanumeric display • FM-w, FM-n, super narrow AM, AM-w, AM-n, USB, LSB, CW • Programmable tuning steps • Detachable MW bar aerial with negative feedback • Computer socket fitted for control, clone and record • Write protect & keypad lock • Versatile band scope with save trace facility • Twin frequency readout with bar signal meter • Step-adjust, frequency offset, AFC • Temperature compensated crystal oscillator for greater frequency stability • Telescopic antenna • Optional cards for memory expansion, CTCSS squelch/search, tone eliminator, 20 sec. record/playback and voice inverter • Noise limiter • Attenuator • 1100mAh high-capacity NiCads, 4 AA internal cells, or 12V DC • 2.4" w 5.7" h x 1.0" d, 0.75 lbs **\$549.99**



AR-3000AB All-Mode High Performance Professional Monitor 100kHz-2036MHz (cell blocked) • 400 memory channels • FM-w, FM-n, AM, USB, LSB, CW • Tri-conversion IF stage • Scans 50 channels per second rate • RS-232C port for computer control • 4 search banks • Manual tuning dial • BNC antenna connector • Scans 20 channels per second • 5.4" w x 3.1" h x 7.9" d, 2.4 oz.. **\$1099.99**



752C SSB/CW Audio Filter Pull out stations from noise and interference. Peak, notch, low or high pass control helps eliminate heterodynes and interference. Filters tune 300 to 3000Hz; bandwidth varies from 40Hz to almost flat; notches to 70dB. Switchable inputs for two radios. Uses 9 to 18VDC. 10" w x 2" h x 6" d **\$89.99**



8100W Regenerative 10' wire makes world-wide stations come in loud and clear. Tune international shortwave, SSB/CW, RTTY and packet. Covers 75-13M SW bands. Vernier drive tuning. Uses 9V battery, earphones or plug-in speakers. 7" w x 2.5" h x 6" d, 1 lb..... wired **\$89.99**

956 LW/MW/SW Pre-selector/Tuner Improves reception of signals from 150kHz to 30MHz. Boosts signals while rejecting images, intermodulation, other phantom signals. 2" h x 3" w x 4" d..... **\$49.99**



AR-8600B Receiver Use anywhere - mobile, base or transportable. Powered from an external 12V DC power supply, optional DC lead from a 12V vehicle or from optional internal NiCad battery pack (Special Order). All mode receive capability including SSB with programmable tuning steps down to a resolution of 50Hz. An RS-232 port with free supporting control software available from the AOR web site. • Coverage: 530kHz-2040MHz (cell blocked) • 1000 memory channels (20 banks), 1 priority channel • All mode reception with super narrow FM plus wide • True carrier reinjection in SSB modes • New front end with RF preselection of mid-VHF bands • Detachable MW bar antenna • Tuning steps programmable in multiples of 50Hz in all modes, 8.33 kHz airband step correctly supported • Step adjust frequency, AFC • Noise limiter and attenuator • Versatile band scope with save trace facility • Twin frequency readout with bar signal meter • Separate volume and squelch controls • Write protect and keypad lock • Programmable scan and search • RS-232C computer port • Flash-ROM memory (no battery required) • Slot card sockets • BNC socket for 10.7MHz output **\$869.99**

SDU-5500

Spectrum Display

Unit Visually identify signals and relative strength • Works with AR-5000B/AR-3000AB, ICOM base and other receivers with a 10.7MHz IF output • 10MHz bandwidth - 10kHz to 2600MHz • 5kHz/30Hz resolution • White/blue mono LCD **\$1099.99**



8121 World Band Receiver Receives FM, medium wave, long wave and 18 shortwave bands. Sony integrated circuit design provides excellent sensitivity and selectivity. Built-in telescopic antenna. LED tuning indicator. World time zone and frequency charts on back panel. Built-in 3" speaker. 4.5" h x 7" w x 1.5" d Works on 6V DC or 4 AA batteries **\$39.99**

ICOM

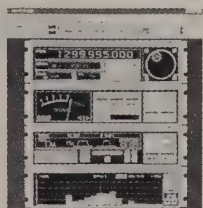


R-75 HF + 50MHz Receiver Covers a wide frequency range from 0.03-60MHz and includes 101 memory channels. All mode- USB, LSB, CW, RTTY, AM, S-AM and FM. Alphanumeric readout with digital bar S-meter. Conventional tuning plus numeric key pad for direct input. Features include high stability receiver circuit, superior dynamic range, 2-level preamp, noise blanker, synchronous AM detection, twin PBT capability, front mounted speaker, filter options and optional UT-106 DSP. Operates from 13.8V DC @ 1.1A, or supplied AC adapter. 9.5" w x 3.75" h x 9" d, 6.6 lbs..... **\$569.99**



R-8500-02 Wide-band All-mode Receiver 0.1-2000MHz (cell blocked) with 10Hz resolution. All modes: AM, FM, WFM, SSB, CW and optional TV-R7100 TV/FM adapter. Direct keyboard entry. Versatile scan functions; 1000 tunable multi-function memories; 20 banks of 40 channels plus auto-write and skip areas. 20 scan edge memory channels store 10 sets of frequencies for programmed scan, plus priority. Selectable AGC, noise blanker, tone, squelch, record jack. Selectivity: 500Hz, 2.3, 6 and 15kHz. RS-232C interface. Voice synthesized read-out optional. 110/220V AC. 11.875" w x 4.875" h x 10.875" d, 16.5 lbs **\$1429.99**

PCR-1000-02 PC Communications Receiver Connect the 1000-02 to a lap/desktop IBM-compatible for reception of a wide range of frequencies. Listen to favorite stations in the background while running other applications. 100% PC hardware external. Includes everything needed to connect to a PC: power supply, speaker, antenna, cable & software • 0.01000-823.999999MHz, 849.000001- 868.999999MHz, and 894.000001-1300.00MHz (cell blocked, guaranteed 0.5-1300MHz, only) • WFM, FM, AM, SSB, CW • 1000 memories per file • Requires Windows 3.1 or 95, Intel 486DX4, 10MB free space, 16MB RAM, FD drive, RS-232C (38400+ bps) serial interface, 640 x 480 display **\$349.99**



PCR-100-12 PC Communications Receiver Wide coverage: 0.01-1300MHz (cell blocked). Listen to marine, shortwave, CB, amateur radio, aviation, etc. • 2 selectable control panels • AM, FM, WFM modes • CTCSS decode • Tunable bandpass filter • 13 tuning steps • Band scope • 20 banks of 50 memories each • Stereo audio output • Auto noise limiter • RF attenuator • Digital S-meter/squelch • Includes wire antenna, serial cable, AC adapter and software • Requires Windows 95/98, 486DX4, 10MB free space, 16MB RAM, serial interface (38400bps), 640x480 display... **Closeout \$249.99**

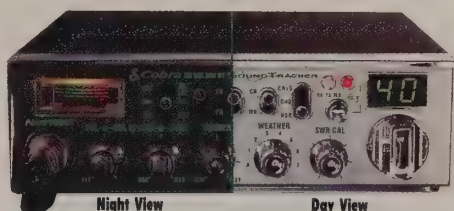


CB RADIOS

148NW ST Full Featured AM/SSB Mobile CB Radio 12W PEP SSB RF output • 4W AM RF power (FCC max. allowed) • 120 channels • Dual conversion AM receiver • SoundTracker™ system • Night-Watch™ dimmer control • USB/LSB/AM • Digital channel indicator • RX/TX indicators • Switchable noise limiter & blanker • RF-gain control • Hi/low tone switch • PA capable • SWR indicator • Instant channel 9 • 7.25" x 2.25" x 8.625", 6 lbs. **\$179.99**



19DX III AM Mobile CB Radio Compact design • 40 channels • Combination S/RF meter • 4W RF output (max. allowed) • Instant channel 9 switch instantly switches from any channel to Emergency Channel 9 • TX indicator • CB/PA switch selects CB operation or PA operation • Mobile bracket • 4.563" w x 1.75" h x 7.25" d, 21 lbs **\$49.99**



29WXNW ST Full-featured Weather Band CB Radio with Illuminated Front Panel 40 channels, AM • Instant channels 9 and 19 • 7 NOAA weather channels with weather alert tone • 4W RF power output • SoundTracker™ system • Tactile controls • Dimmer control • Switchable automatic noise limiter and noise blanker • SWR calibration • PA capability • NightWatch™ illuminated front panel • 7.2w" x 2.2h" x 8.6d", 6 lbs **\$129.99**

Look For This

NEW

& Check Out AES' Latest Additions.



PC-78XL AM Mobile CB Radio Full PLL-synthesized 40 channels • DSC, Dynamic Squelch Control • Instant channel 9 • Microphone and RF gain controls • Delta tune control - Fine tunes received signal and reduces interference • Noise blanker and automatic noise limiter • PA/CB switch • Dimmer control • TX/TX LED indicators • Antenna warning LED - lights when high SWR condition is present • 7.25" w x 8.625" d x 2.375" h, 4 lbs. 3 oz.... **\$99.99**

PC-78LTW Same basic features as the PC78XL with the addition of NOAA weather channel reception with weather alert..... **\$119.99**



PRO-520XL Compact 40 Channel AM Mobile CB Radio 4W • Instant channel 9 access • 4-segment S/RF meter • TX LED • LED channel indicator • RF gain • PA switch • Automatic noise limiter • 4.5" w x 6.75" d x 1.375" d, 1 lbs. 10 oz..... **\$54.99**

RECOMMENDED ANTENNAS FOR CB

COBRA

HGA-1000 Magnet mount base loaded mobile antenna with coax and connector **\$24.99**

HUSTLER

HQT A 55" top loaded whip with Mirror Mount bracket. Comes with 12' cable with PL-259 connector. Chrome with a white coil **\$27.99**

HQ-27M A 55" top loaded whip with Trunk-lip Mount. Comes with 15' cable and PL-259 connector. Chrome with a white coil **\$36.99**

LARSEN

NMO-27C Base loaded mobile, less mt. **\$33.99**

NMO-TLP Low-profile trunk mount for NMO-27C. 17' coax and PL-259 **\$29.99**

NMO-MM NMO-27C magnet mount. Comes with 12' coax and PL-259 connector.. **\$31.99**

SOLARCON

A-99 Base Station Antenna. Three-piece fiberglass design uses a half wave over a quarter wave section, and is tunable. Entire 17 ft. 8 in. length radiates producing about 3 dB gain **\$64.99**

GPK-1 A-99 ground plane kit. Adds 30% more power gain and lower angle of radiation **\$39.99**

WILSON

W-1000 5' base loaded mobile antenna. Available in three mount configurations. All come with 18' cable and PL-259 connector.

ROOF thru-hole mount..... **\$57.99**

TRUNK mount **\$65.99**

MAGNET mount..... **\$76.99**

GENERAL MOBILE RADIO SERVICE (GMRS)

A personal radio service available to an individual with the proper FCC license. A two-way voice communication service to facilitate the activities of the individual's immediate family members. You can discuss your own commercial and/or family business activity. Higher powered 2 to 5W handheld portables allow communications over 1 to 5 miles. **Interstitial Frequencies:** 462.5625, 462.5875, 462.6125 462.6375, 462.6625, 462.6875 462.7125 MHz **Primary Frequencies:** 462.5750, 462.6250 MHz **"Emergency" Frequency:** 462.6750MHz

FAMILY RADIO SERVICE (FRS)

For non-commercial use, FRS shares GMRS frequencies but doesn't need a license to operate. Uses include: camping, hiking, amusement parks, skiing, mobile caravans, any place where multiple people need to stay in touch. 100mw to 0.5W ratings of handhelds allow range of up to 2 miles.

KENWOOD

FRS RADIOS

UBZ-AM14BK FreeTalk EL Easy to use FRS radio that's perfect for families. A compact design makes it easy to hold with lit display for easy viewing. 14 channels, 38 talk groups • Removable belt clip • 32-Step variable volume control • Call ring tone • Battery save mode • Low battery alert • Fixed low profile antenna • Transmit/busy icon • Works up to 30 hours with 4 "AAA" batteries • Black • 3.73" x 2.2" x 1.19" **Sold In Pairs, C/O \$59.99**



UBZ-LH14BK FreeTalk™ 500mW • 14 FRS channels • 38 talk groups (CTCSS) • Privacy talk voice • 4 call ring tones CORDS (In-Range Detect System) • Battery saver and auto power off • Low battery alert indicator/beep • Works up to 40 hrs operation with 3 "AA" alkaline cells • Only available in black • 3.5" h x 2.25" w x 1" d..... **\$79.99**



We accept I.M.P.A.C.® Government Credit Cards

ICOM

FRS RADIOS

IC-4008A 500mW • 14 channels; 38 Group channels • "Call-Ring" and "Smart Ring" functions provide telephone-style ring with 10 different tones • Auto transponder function automatically checks station availability and alerts via function display indication • Fold-down antenna • Water resistant • Requires 3 "AA" alkalines • Black • 4.5" h x 2.25" w x 1" d..... **\$79.99**



MOTOROLA

FRS RADIOS

53543 TalkAbout 250 (Camo) • 38 interference eliminator codes • Built-in hands free operation (VOX) – when used with optional audio accessory • Time-out timer • Transmit light • Audible low battery alert • Scan • Battery meter • LCD display • Audio accessory connector • Removeable belt clip • Operators manual • 3.75" h x 2.25" w x 1.375" d x 6.5" h with antenna • 1 year warranty **Closeout \$59.99**



56360 T6220 Talkabout® FRS 14 FRS UHF frequencies, 38 privacy codes • Simple menu • Backlit LCD and black case • Button beeps • Power-save mode • Time-out timer • Transmit LED • Talk group filter • 5 audible call alerts • Audio accessory connector • Lock button • Ring alert • Signal strength indicator • Scan • Uses "AA" alkaline batteries • Rechargeable ready with charging dock • Belt clip... **\$49.99**

53834 T5200 Talkabout® FRS Radio • 14 FRS UHF frequencies, 38 privacy codes • Backlit LCD display • Rosewood-colored case • Power-save mode • Time-out timer • Transmit LED • 5 audible call alerts • Audio accessory connector • Lock button • Uses "AA" alkaline batteries • Belt clip **\$39.99**

GMRS RADIOS

Common Features: 38 Interference eliminator codes • Built-in VOX operation (when used with optional audio accessory) • Scan capability • Voice-assisted programming • Low battery alert • Transmit light • Audio accessory connector • Removeable spring action 2.5" belt clip • Rechargeable battery • 10 hour charging adapter

53544 TalkAbout DX • 2W • 5.25" h x 2.5" w x 1.25" d, 11.1 oz..... **\$189.99**

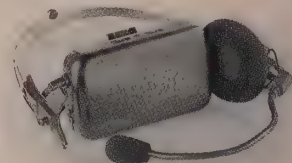
53547 TalkAbout DXDPS Additional Features: • Alkaline battery tray (batteries not included) • 2W • 6.25" h x 2.5" w x 1.25" d, 11.7 oz... **C/O \$179.99**



maxon

49MHz FM PERSONAL COMMUNICATORS

Low power, 1/4 mile average range • Dual conversion super-heterodyne receiver provides crisp, clear transmission • Use for group communications • Push-to-talk or voice activated - talk-to-transmit • No license required • Channels: 49.830MHz, 49.845MHz, 49.890MHz, 49.860MHz, 49.875 MHz



MX-49SX A single channel unit including a lightweight adjustable headset with retractable whip antenna and boom microphone with windscreen. Uses only one of first 3 channels (see above) • LED power indicator • battery charger jack • Range up to 1/4-mile • Uses two "AA" alkalines or rechargeable nicads • 5" w x 2.5" h x 1" d, 9 oz **\$29.99**



MX-49FX The unique earphone and mic pick up voice vibrations from the ear canal for transmit audio and also provide received audio • Will not interfere with helmets • 5 selectable channels • Built-in antenna gives up to 1/8-mile range • Remote PTT button and channel selector. Uses 3 "AA" batteries. 5.5" w x 3" h x 1" d 6 oz..... **\$49.99**



MX-49HX Great for motorcycling, snow mobiling, etc. The helmet adaptable headset has a whip antenna and boom microphone with windscreen • 5 selectable channels • VOX or PTT with on-unit or remote switch • Front mounted off/on, volume, VOX sensitivity and channel selector • Jacks for optional passenger intercom headset • Uses three "AA" batteries • 5.5" w x 3" h x 1" d, 6.5 oz.. **\$49.99**

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Uniden



HANDHELD SCANNERS

BC-60XLT-1 Handheld Scanner (left) 30 programmable channels, 10 bands – cover 29-512MHz • LCD channel display • Programmable channel search • One-touch weather • Lockout • Memory backup • Keypad lock • Scan delay • Manual channel access • Track tuning • Keypad lock • Uses four AA alkaline or nicad rechargeable batteries, or operates on AC with included 110V AC adapter • 2.625" w x 6.75" h x 1.5" d, 10.5 oz **\$89.99**

BC-80XLT Handheld Scanner Looks similar to 60XLT • 50 programmable channels, 11 bands, 5 banks - cover 29-956MHz (cell blocked) • 5 priority channels • On-touch weather • Manual channel access • Bands search • Full frequency LCD display • Uses four AA alkaline or nicad rechargeable batteries, or operates on AC with included AC adapter • 2.625" w x 6.75" h x 1.5" d, 10.5 oz **\$119.99**

BC-245XLT TrunkTracker II Handheld Scanner (right) 300 programmable channels, 12 bands including Aircraft and 800MHz (covers: 29-956MHz - cellular blocked) • Trunk tracking technology: trunk scan and search, truck lock out, trunk delay, and 10 trunk scan list • Programmable search • Memory backup • Manual channel access • Pre-programmed service search • Channel lockout • 10 priority channels • Rechargeable NiCad battery and wall charger • 2.5" w x 6" h x 1.75" d, 12.5 oz **\$219.99**

SC-180B Sportcat (middle) Hear car and pit crews at auto races, the cockpit at air shows, or use it as a traditional scanner to keep up with emergency personnel. 100 programmable channels, 12 bands/800 MHz (cell blocked)/Air, 10 banks • 10 priority channels • Twin TurboScan™ and search • Manual channel access • Instant weather • Full frequency, alphanumeric LCD • Rechargeable NiCad and wall charger • Includes sports frequency guide, AC adapter, rubber antenna, belt clip and earphone • 2.5" w x 1.625" d x 6" h, 11 oz **\$169.99**

SC-200 Sportcat Same as above with 200 channels, cloning capability and CTCSS **\$199.99**



BEARCAT SCANNERS

All CLT's have a built-in AM/FM radio/alarm clock.

BC-244CLT 30 programmable channels, 10 bands • Full frequency LCD • Channel lockout • Memory back-up • Manual channel access • One-touch weather • 8" w x 5.5" d x 3" h, 1 lb. 6 oz **\$99.99**

BC-248CLT AM/FM Radio with 20 presets • 50 programmable channels, 10 bands, 5 banks of 10 channels each • One-touch weather • Full frequency display • Auto squelch • Lockout • Memory back-up • Manual access • Delay • 5 priority channels • 10" w x 5.5" d x 3" h, 1 lb. 6 oz **\$109.99**

BC-278CLT AM/FM Radio with 20 presets • 100 channels, 12 bands, 5 banks of 20 channels each • 800MHz coverage (cellular blocked) • One-touch weather with S.A.M.E. weather alert • Full frequency display • Auto squelch • Lockout • Memory back-up • Manual channel access • Programmable delay • Data skip key • Programmable search • Programmable service search • 5 priority channels • 10" w x 5.5" d x 3" h, 1 lb. 7 oz **\$169.99**



BC-350A 50 channel, 11 band mobile/base scanner with Aircraft and instant weather • Super TurboScan™ @ 100 channels/sec. • Full frequency LCD display • Private channels, 20 programmable and scannable • Police channels • 10 programmable fire and emergency channels • Marine channels • Band search • Lockout channels • Mounting bracket, AC adapter, telescoping antenna cigarette and DC power cord • 5.25" x 6.8" x 1.625", 1.6 lb **\$109.99**



BC-780XLT Continuous Band Programmable Scanning Radio AM/FM/WFM • 500 channels, 10 bands, 10 priority channels • Covers 25MHz-1.3 GHz (cell blocked) • Pre-programmed service searches • Full frequency, backlit, LCD display • TrunkTracker III • S.A.M.E. weather alert • SmartScanner™ • Clone feature • Alpha tagging • CTCSS/DCS • PC control • Base or mobile • Beep alert • Record every channel or every ID programmed (up to 1000 IDs) • 7" w x 6.56" d x 2.375" h, 41.96 oz **\$349.99**



BC-895XLT "Trunk-Tracker" • 300 channels, 12 bands including Aircraft and 800 MHz, 10 bands • VFO control – covers 29-956MHz (cellular blocked) • 10 priority channels • TurboScan™ • One-touch weather with weather alert • Manual channel access • Built-in CTCSS • Trunk search • Scan lock-out/delay • RS-232C port • Signal strength meter • Auxiliary tape output • Automatic store • 30 trunking channel indicator annunciators • 3-day memory backup • Programmable search • Lockout • 10.875" w x 3.625" h x 7.5" d, 3.5 lbs **\$199.99**



BCT-7 Bear Tracker 800 Pre-programmed with frequencies for highway patrol, D.O.T, local and county police, news, fire, aircraft and CB services. Selectable by state (except HI) • 12 bands • 100 channels • Highway patrol priority alert • Data skip • Weather scan • 13.8V DC or 110V AC • Mobile mount • 5" w x 7" d x 1.375" h, 1 lb 11oz. **\$169.99**

ICOM

R-10-05 General Coverage Pocket Scanning Receiver 500kHz-1300MHz (cell blocked). AM, SSB, FM wide or FM narrow modes. Programmable tuning steps. On-screen spectrum display, 1000 non-volatile memory channels in 18 banks of 50 channels. Scan by bank, mode, or program. Alphanumeric characters can be entered to identify channels and banks. Noise blanker and auto noise limiter. Auto frequency control (AFC) • Easy-to-read, edge-lit display • 24-hr clock with timer • PC programming capability • Adjustable LCD contrast • Signal indicator • Power-saver • NiCads and wall charger (also will use alkaline or DC) • 2.3" w x 5.1" h x 1.2" d, 10.9 oz **\$299.99**



R-2-06 Communications Receiver Wide frequency coverage from 0.495-1309.995MHz (cell blocked) in 9 frequency bands with 400 memory channels in 8 banks of 50 channels. FM, WFM and AM modes. Features: Quick, easy band switching • Tone squelch (CTCSS decode) • Offset monitor capability • Built-in attenuator • PC programming capability • Receiver-to-receiver data cloning • Multiple scan functions • Backlit LCD with timer • Priority watch function with beep alert • Channel indication • Automatic squelch • Up/down keys for AF level control • Low-battery indicator • Auto-power-off • MIL-SPEC 810 C/D/E, weather resistant • Includes 2 NiCads, charger, antenna, handstrap and belt clip • 2.875" h x 3.375" w x 1.0625" d, 6 oz **\$154.99**



R-3-26 Communications Receiver Provides wide-band receive capability from 0.5-2450MHz (cell blocked). Includes 2" TFT color display which may be changed to mono to conserve battery power. Receive favorite TV shows, scan for wireless cameras like those in race cars. Use with a wireless camera to monitor babies, traffic, etc. Video/audio output terminal allows displaying to a large monitor or recording device. Signal strength and band scope functions assist in finding the action you want to hear. Includes 450 memory channels with alphanumeric names, CTCSS, attenuator, and more. A long lasting Li-ion battery offers easy charging, lightweight performance, and up to 27 hours of continual use on the mono LCD • PC programming capability • 2.4" w x 4.72" h x 1.28" d, 10.6 oz **\$349.99**



Service Questions?

414-358-4087
Milwaukee, WI



GPS-12XL Personal Navigator™ for Extreme Outdoor Enthusiasts 12-channel receiver with external antenna for fast, accurate position fixes in tough conditions like tree canopy and urban obstructions. Rugged, compact case ideal for boaters, hunters or hikers. 500 user waypoints with alphanumeric name and user comments. 20 reversible routes of up to 30 waypoints each. TracBack™ navigation turns a track log into a route back home. Nine waypoint alarms. Over 1000 track log points, position averaging, emergency erase, and cloning features. Up to 12 hours operation on 4 "AA's"..... **\$219.99**



GPS-12CX Personal Navigator™ with Color Display for the Outdoor Enthusiast Nine built-in languages including French, German, Spanish and Portuguese. 2,048 track log points. Selectable position formats including MGRS and user-definable grid. Provides heading, track, sunrise and sunset, ETE, ETA and other calculations. User selectable audible settings, TracBack™. Up to 36 hours of operation..... **Closeout \$219.99**

NAVTALK™ Personal Navigator™/Cellular Mobile Combines GPS with cellular technology into one handheld unit. During travel, location is displayed in real time on a built-in map. Send your exact position and have it displayed on another NavTalk unit. Cell phone: Customized phone book • One-touch speed dial • Built-in pager; • One-touch emergency dial (subscription required) GPS: Shows interstates with exit info, cities, airports, etc. Plug into a PC and download from optional MapSource™ CDs [U.S. Roads and Recreation (010-10215-00) or World Map (010-10215-01 Special Order)] . **Closeout \$299.99**

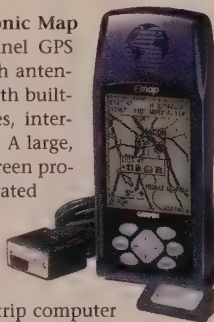


NEW RINO 120 GPS-Enabled Handheld for FRS and high-performance GMRS • Two-way communications up to 2 miles using FRS (up to 5 miles, using GMRS) • 0.5/1W (FRS/GMRS) • 14 channels, 38 squelch codes, and VOX • Voice scrambler • Vibration mode for "silent" calls • 12-channel, GPS receiver provides position accuracy of less than 10' when enabled • Peer-to-Peer positioning to transmit GPS location, showing distance and bearing • Navigation features include extensive waypoint storage, TracBack, multiple position formats and built-in trip computer • Basemap of the Americas (major cities, highways, thoroughfares, rivers, lakes, coastlines, borders, and railways) 8MB internal memory accommodates downloadable cartography from GARMIN's MapSource CD-ROMs • Uses 3 "AA's" • 8.5 oz..... **\$249.99**



GPS-III PLUS Personal Navigator™ Dash mount. Features road maps without plug-in cartridges. Selectable vertical or horizontal screen display. Dedicated keys for zooming from 0.2-360 miles, diagonal panning, auto start/stop timer, average/max. speed recordings. Rocker keypad, backlit LCD display, full featured moving map plotting, user selectable navigation screens for compass or graphic highway guidance. Download data from MapSource CDs **\$299.99**

eMAP DELUXE Electronic Map Contains 12-parallel-channel GPS receiver and internal patch antenna in a compact design with built-in basemap showing cities, interstates, exit info and more. A large, high resolution, backlit screen provides a clear picture. Dedicated zoom keys with unique rockerpad design for easy one-hand operation. • Find cities, nearest exits and waypoints • Built-in trip computer provides odometer, stopped/moving/total time, moving/overall average and maximum speed • Map page displays direction pointer, speed, time, distance/time to go and trip distance • Save up to 500 sites • 2000 track log points • Up to 12 hours operation on 2 "AA" batteries. Includes interface cable, 8MB data card, wrist strap and guide • 2.4" x 5.5" x 0.8", 6.7 oz..... **\$209.99**



eTREX (left) 12-parallel-channel GPS receiver and internal patch antenna packaged in a sleek, waterproof case. Operating buttons on both sides allow larger display. Simple menus and logical operations make it easy to mark your position. • Navigation using compass or maps • Dedicated zoom keys for map page • 500 user waypoints with name and graphic symbol • 1 route with 50 waypoints • Resettable trip computer • Auto track log, 10 saved tracks to retrace your path • Up to 22 hours of use with 2 "AA" alkalines • No memory battery required • 4.4" h x 2" w x 1.2" d, 5.3 oz..... **\$119.99**

eTREX SUMMIT™ Hiking Companion (right) Similar to the eTrex but includes a barometric altimeter and electronic compass for accurate elevation, direction and location reporting **\$249.99**



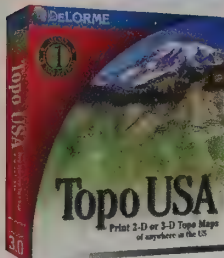
STREET PILOT Dashboard Mount (left) Built-in map of the Americas with state and country boundaries, lakes, rivers, cities, state and interstate highways and some local thoroughfares. Accepts GARMIN cartridges showing residential streets, addresses and points of interest. Large high resolution 240 x 160 pixel display • 3-level, bright, amber, backlit screen and keypad • Auto turn-by-turn guidance with manual route selections • Auto waypoint and route naming • Storage for 100 waypoints • Trip planning and computer • Zoom key - 120' to 800-mile range • Dashboard screen showing current trip segment, distance, direction • Clock and arrival alarms. Up to 16 hours on 6 AA's..... **\$469.99**

ST PILOT COLOR StreetPilot® Color Map (right) Portable GPS navigation. Ideal for business or vacation in busy metropolitan areas. View position in real time on a colorful electronic map. Look up cities, exits and more. Built-in electronic basemap shows interstates and motorways with exit information, most highways and thoroughfares, rivers, lakes, plus commonly used streets in metro areas. • Large, high resolution, 16-color display • Exit information reveals services available at interstate and motorway exits • Rugged construction and portable size • Powered by 12-volt adapter (included) or six "AA" alkaline batteries (not included) • Internal lithium battery backup **\$599.99**



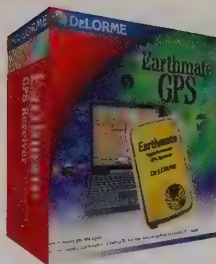
GPS-V Turn-by-turn navigation throughout North America. Auto-routing shows the shortest, fastest routes. Display prompts with audible beeps alert to turns, distance to upcoming turns, course deviation, and distance to final destination. Built-in, routable basemap provides detail for interstates, interstate exits (USA only), highways, rivers and lakes in the U.S., Canada and Mexico, plus commonly used metro streets. Downloaded maps from MapSource MetroGuide (included), gives guidance down to residential street-level detail. Look up services and points of interest. View address, phone number and map location. • 500 user waypoints • 20 reversible routes • Trip computer provides odometer, stopped time, moving/overall average or total time, maximum speed • Auto track log, 10 saved tracks • Up to 25-hour operation on 4 "AA's" • Permanent data storage, no memory battery • Water resistant • Includes auto mount, cigarette lighter adapter and PC cable • 2.32" h x 5.0" l x 1.62" w, 9 oz **\$499.99**

DELORME



TOPO USA Version 3.0 Plan the perfect outdoor adventure. Use a PC and TOPO USA®, the most complete on- and off-road software. Contains information for the entire U.S. on over 300,000 trail miles and updated DeLorme national street data

offering the power and speed to quickly find and profile trails, mark a route, look at trail elevations, print out detailed custom maps and more. Use with popular GPS receivers to upload and download GPS waypoints. Enjoy freehand drawing tools and right-click mouse options to trace trails, edit lines and measure line distance. Contains great topo views of anywhere in the U.S. in 3-D and color **\$99.99**



EARTHMATE GPS Receiver Never get lost again! The Earthmate receiver is a high-performance, easy-to-use link to the Global Positioning System (GPS). Earthmate and a laptop PC work together to show location in real time on detailed Street Atlas USA® Deluxe maps, street maps of the entire U.S. that automatically calculate a route. Search by specific address, place name, zip code, latitude/longitude, intersection or area code and exchange. Earthmate® also works with Topo USA®, 3-D TopoQuads®, Eartha Global Explorer®, AAA Map'n'Go®, Topo USA: Fly-Fishing Edition or Golf Digest: Places-To-Play travel software. The pocket-sized Earthmate® will operate on four AAA batteries, and features a durable housing with a moisture resistant seal designed to withstand a wide variety of road conditions **\$139.99**



ICOM

GP-270ML Fixed Mount Marine GPS Receiver Large LCD display • 12 channels • Full key pad • 500 user waypoints with 7-character names and 16-character descriptions • Marine database with 16,000 pre-programmed waypoints - all US buoys and lights • Built-in world map • 24-hour tide prediction for the entire world • Sun and moon phase prediction • Sun and moon rise and set times for any spot on Earth • Track plotter • 30 routes which are reversible • Includes 6 languages • DGPS ready • Operates with LORAN TDs • Free WAAS upgrade (June) • 3.1" x 9.9" x 5.8", 3.5 lbs **\$399.99**

MAGELLAN Navigation & Communications



The Meridian™ - Magellan's new premier line of rugged GPS handheld receivers, designed with serious navigators in mind.

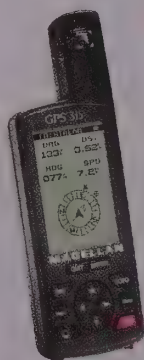
MERIDIAN™ GPS (left) The most affordable of the Meridian line, but low price doesn't mean sacrificing features. This powerful GPS promises to be your most trusted tool in the field. Expanded memory capacity for downloading maps with optional SD cards in 8, 16, 32 and 64MB • Large backlit display for easy map viewing • Rug-ged rubber armoring and high impact plastic for use in the harshest environments • Supports several languages including: English, French, German, Swedish, Finnish, Spanish, Italian, Portuguese, Dutch • Save Track-to-Route • Satellite status display • Built-in help • North-Finder with sun/moon positions • Sunrise/set calculator • 2MB database of U.S. cities, interstate/state highways, political boundaries, major waterways and airports • Store 20 routes, 500 waypoints and 2,000 trackpoints • Vertical profile of track* • Horizontal profile* • Address Search ** **\$219.99**

MERIDIAN™ GOLD (middle) All features of the Meridian GPS, with additional 16MB database of U.S. cities, highways, political boundaries, major waterways and airports **\$299.99**

MERIDIAN™ PLAT (right) Meridian™ Platinum Possesses all features of the Meridian Gold and adds electronic compass and barometer that tracks barometric pressure like a weather station **\$349.99**

Each Magellan GPS includes a powerful 12 parallel channel receiver, wraparound rubber armoring, "EZstart" operation, auto averaging and a waterproof design.

MAP-330 GPS The most memory in its class! Designed for the avid outdoorsman and mobile professional who demand supreme performance and functionality. The built-in 8-megabyte base map includes worldwide political boundaries and U.S. cities highways, major roads, national parks, waterways, and railways. And with 8 Megabytes of up-loadable memory, you can plan detailed, cross-country routes without having to visit your PC every other state. View your navigation information on any of the four graphic screens presented on a large, high-resolution display. With a powerful 12-parallel channel receiver and quadrifilar antenna, the MAP-330 provides outstanding lock-on tracking in a vehicle, boat, on foot, etc..... **\$249.99**



with mapping software **\$149.99**

GPS-315 Navigates to 20,000 major international cities or brings you back to 500 user-entered locations. Nine screens show bearing, heading, distance and speed. A 12 parallel-channel receiver offers performance under tough conditions. Auto-averaging gives your position while standing. Also: 1200-point Track, BackTrack, best fish/game time, 10-year back-up battery, PC up/download and simulator. The 6.4 oz. unit comes in a waterproof, shock-resistant case. It runs on 2 "AA" batteries for 15 hrs. Works



GPS-320 GPS Navigator with Nautical Navaid Data Base and Worldwide Cities A fisherman's full-featured personal navigator with a large database of cities and regional marine aids and memory to store up to 500 waypoints and/or landmarks. Four navigation screens show direction, path traveled, and distance. Other features include: A 12 parallel-channel receiver, EZstart operation, 1200-point SmartTrack, BackTrack, best fish and game time, sunrise/set and mapping software compatibility. Uses 2 "AA" batteries, comes with 10-yr back-up battery **\$169.99**



980611 MapSend Topo USA™ Tourists, motorists - maximize the potential of your GPS technology. MapSend Topo USA provides the capability to download highly detailed maps into your Meridian™ and MAP-330 family of products. These maps include detailed topography maps, trails, streets, rivers, lakes, coastlines, and points of interest for the entire United States. Map sizes and regions are user selectable and can be customized to meet your needs. Also, create waypoints and routes and then download them directly into your Meridian or MAP-330 for use in the field or save them to your PC. Download your tracks from your GPS handheld to view on MapSend. Helps plot your current position on detailed maps. Use the Search function to easily find topography, trails, street addresses, cities, lakes, waterways, parks, airports, campgrounds, falls, towers, caves, mines, dams, bridges and more..... **\$99.99**



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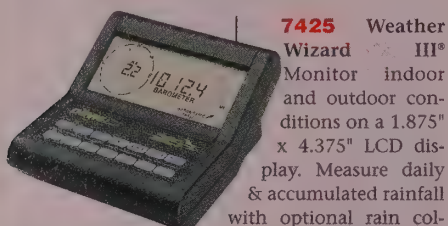
* Requires MapSend™ Topo for United States
** Requires any version of MapSend Software



Gives many measurements and the ability to download and graph data on your PC.

7440 Weather Monitor II® This weather station combines all weather monitoring function and 12 or 24 hour clock with date into one package. Shows them on an back lit, 1 1/4" x 4 3/8" LCD display. **Temperature:** Outside, -50 to 140°F; Indoor, 32° to 140°F **Wind:** Direction in 1° or 10° increments • Speed to 175mph • High wind speed & wind chill to -134°F **Barometer:** Barometric pressure with memory recall and trend arrow **Humidity:** Inside 10%-90% (outside optional) • High and low **Alarms:** Temp., wind speed, wind chill, humidity, time and barometric trend **Features:** Scans selected functions • 115VAC • Battery back-up • Desk, shelf or wall • 5.25" x 5.875" x 3"..... **\$269.99**

7859 External Temperature & Humidity Sensor For 7440; measure outside humidity, dew point and temperature. Includes 40' cable **\$119.99**



7425 Weather Wizard III® Monitor indoor and outdoor conditions on a 1.875" x 4.375" LCD display. Measure daily & accumulated rainfall with optional rain collector. Optional Weather-Link software will process and store data through an IBM® compatible or Mac®. Includes anemometer, external temp. sensor, junction box, cables and AC adapter. **Temp:** indoor, 32°F to 140°F, outdoor, -50° to 140°F • Low or high **wind:** direction in 1 or 10° increments, speeds to 175mph, chill to -134°F • **Alarms:** temp., wind speed/chill, time • Scans functions • Metric or U.S. • 115V AC • Desk, shelf or wall • 5.25" x 5.875" x 3"..... **\$179.99**

7852 Rain Collector II For 7440, 7425 and 7415; read both daily and accumulated rainfall in 0.01" increments. Comes with 40 ft. cable..... **\$69.99**

7400 Perception II® Monitors indoor climate, looks similar to 7425. **Functions:** temp. 32°F-140°F • Barometric pressure w/memory recall • Humidity • Highs/lows recorded with time and date • **Alarms:** temp., humidity, time, barometric change • 12/24 hour clock with date **\$139.99**

0281 Wind Wizard™ Wind Speed Indicator Handheld unit accurately measures wind speed from 0-60MPH in miles/hr, meters/sec, Beaufort. No batteries required **\$46.99**

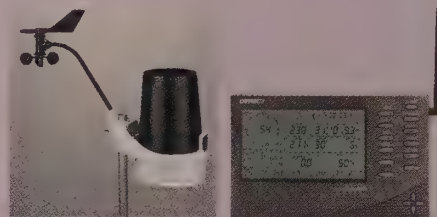
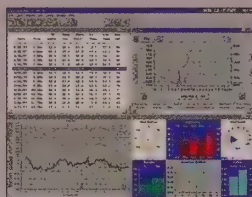


0271 TurboMeter™ Wind Speed Indicator Turbine suspended on sapphire jewel bearings responds to lightest winds • 3-digit display • Reads speed in miles/hr, knots, feet/min, meters/sec • Requires 3 "AAA" batteries..... **\$139.99**

SOFTWARE

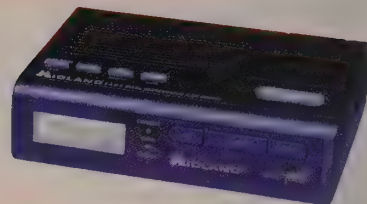
7862/7866

WEATHERLINK® Windows® or Mac platform. Links Perception, Weather Wizard, or Weather Monitor to a PC. Create graphs, calculate average conditions, generate summaries, analyze trends, etc.....ea. **\$149.99**



6150 Wireless Vantage Pro The latest in weather technology! Offers forecasting, on-screen graphing, and more. Quick view icons show the forecast at a glance - sunny, partly sunny, cloudy, rain or snow, while a moving ticker-tape displays. An innovative integrated and solar powered sensor suite combines rain collector, temperature and humidity sensors, and anemometer into one package. Typical wireless range is up to 150-200ft. For improved accuracy, the temperature and humidity sensors are housed inside a radiation shield which protects solar radiation and other sources of radiated and reflected heat..... **\$539.99**

MIDLAND®



74-200 Digital Weather/Hazard Alert Monitor Provides 24-hour National Weather Service information from 7 NOAA channels for maximum capability up to 50 miles. Eight-character LCD displays up to 56 types of S.A.M.E. watches or warnings and monitors status of user selectable warning system. Weather Command button switches from alert mode to full monitoring. Clock displays time and date and has alarm functions. Telescoping antenna, external antenna input and alert device output jacks. Operates from 9-14VDC and 117VAC with supplied adapter. Accepts 9V battery for backup during outages. 7.75" w x 2" h x 5" d, 18 oz. **\$59.99**



74-210 Digital Weather/Hazard Alert Monitor with S.A.M.E. Provides the latest storm or hazard safety information only in areas you specify, county-by-county. Digital tuning provides pin-point accuracy for 7 NOAA frequencies, covering all US/Canada weather channels up to 50 miles. The digital FM radio with five memory channels automatically switches to alerts when they occur. Digital readout also displays up to 56 types of watches and warnings as well as the radio frequency and time of day. Operates from 117VAC and 9-14V DC with 4 "AA" batteries for back-up. Accessory jack makes it easy to add an antenna, strobe light, pillow vibrator or any X-10 accessories. 7" w X 2" h x 5" d .. **\$79.99**

maxon SYSTEMS



WX-70 Weather Monitor Receive up-to-the-minute National Weather Service (N.O.A.A) broadcasts of local weather conditions for the U.S., Puerto Rico and the U.S. Virgin Islands. Tunes all 7 N.O.A.A frequencies. Three severe weather "Alert" warning modes: "VOICE", 10 Second SIREN, or Flashing LED. Operates from supplied 110V AC adapter; uses a 9V battery for back-up power in the event of an outage. 5.75" w x 4.75" d x 1.5" h.. **Closeout \$29.99**



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AMATEUR ELECTRONIC SUPPLY
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DATE _____ 19__

THIS CERTIFICATE

TO MERCHANDISE
VALUED AT _____

DOLLARS \$ _____

PRESENTED BY _____

AUTHORIZED SIGNATURE _____

**Gift Certificates
For the Undecided**



ALL HAZARDS WEATHER RADIOS

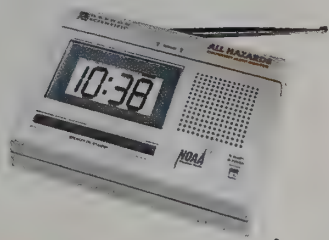
WR-102 Portable S.A.M.E. Weather Radio A handheld all-hazards weather radio that receives and displays alerts, watches and warnings that apply only to a local area using S.A.M.E. technology • Monitors 24-hour weather forecasts and alerts • Scans all NOAA channels • Monitors U.S. emergency alert system with auto activation • Dual LED power/alert indicator • Digital clock land alarm with snooze **\$59.99**



agency alert system with auto activation • Dual LED power/alert indicator • Digital clock land alarm with snooze **\$59.99**



WR-196T Desktop S.A.M.E. Weather Radio AM/FM radio with ten memory presets • Digital tuning, including seven NOAA weather channels • Dual LCD display for clock and dot-matrix text message • Automatic audible and visual alert activation plus blinking LED warning • Standby mode to mute speaker • Digital clock, calendar, alarm, and 5-120 min. sleep timer • Operates from 3 AA's or AC adapter • 6.75"h x 5.25"w x 0.875"d, 0.75 lb.... **\$79.99**



WR-3300 Desktop or Bedside Operates on 3 "C" batteries (not included) or included AC power adapter • Large digital clock LCD • Wall mount or desktop • 5"L x 4"W x 2"H, 6 oz.. **Closeout \$19.99**



ESR-220 Solar/Dynamo-Powered Radio and Flashlight Built-in Ni-Cad recharges



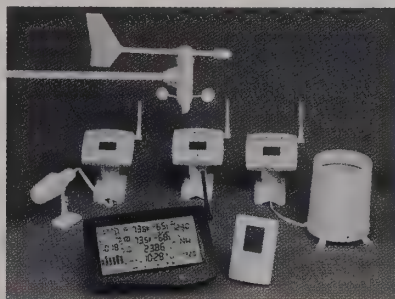
using the solar panel or dynamo generator. Install 3 "AA's" (back-up only). Also power and recharge using optional AC adapter • Bright beam flashlight with 2 modes: steady ON or flashing ON and OFF • Warning siren feature, use alone or with flashing light • Built-in antenna • 8.5" x 3.5" **\$29.99**



WEATHER STATIONS

RGR-122 Long Range Rain Gauge Self-emptying and provides cumulative and daily precipitation totals for up to nine days. Its wireless,

long range capability allows the collector to be placed up to 300 ft. from the main unit. The collection data is broadcast at 433MHz to the indoor base unit and displayed on an attractive easy-view 3.5"h x 1.5"d x 2.5"w LCD console. Includes indoor temp. gauge. Requires 2 "AA" batteries in both collector and main units **\$59.99**



WMR-968 Cable Free™ Weather Station Innovative wireless outdoor sensors with 300 ft. range operates on solar power for simple installation and sophisticated ease. Track and record over 20 separate weather conditions by a press of the touch-sensitive jumbo LCD display screen **\$399.99**

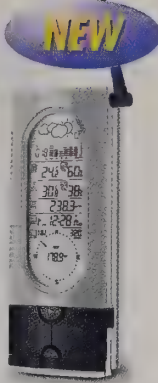


WM-918 Complete Weather Monitoring Station Monitors over 20 weather and environmental conditions. Sensor range up to 300'. Self-dumping electronic rain gauge, outdoor temp. and humidity sensor, anemometer (wind speed/direction), and all wiring. Desktop control panel displays clock, calendar, alarm, and weather. Also features weather forecasting displaying local 12/24-hour forecasts. Uses 8 AAA batteries, AC adapter included. 7"l x 4.25"w x 1.5"h, 14.8 oz **\$229.99**



PDC-803 Electronic LCD Digital Compass Easy-to read LCD screen displays heading as a cardinal point (e.g. N, NW, SE) with numeric digits in degrees (e.g. 17°) plus a directional compass arrow • Backlight for night use • One touch calibration corrects for local magnetic interference • Mounts on dashboard with velcro • 3 "AAA" batteries included • 1.875"w x 3.625"h x 2.75"d, 4 oz **\$29.99**

WMR-112A CableFree™ Weather Station Uses innovative, wireless, outdoor sensors for simple installation. Operates on 433MHz at a 300' range from remote sensors. • Measures outdoor temperature (-4°F to 140°F) and relative humidity (25%-95%) • Measures indoor temperature (0°F to 122°F), relative humidity (25%-95%) and barometric pressure (17.27 to 31.02 in.Hg) • Indoor touch-screen console, wall mount or desktop • AC adapter • Requires 12 "AAA" and 6 "AA" batteries (not included) • 7.75"h x 3.5"w x 1.4"d **\$199.99**



OTHER WEATHER PRODUCTS

EMR-812A Cable Free™ Thermometer The latest in radio frequency technology! This Cable Free™ thermometer with jumbo display shows you the indoor temperature and the temperature from up to three remote locations. Includes one easy-to-install remote



temperature sensor that can be placed up to 90 feet from the main unit - with no wires to install anywhere! • 433MHz operation • High/low memory and temperature alarms • Choose and change between Celsius and Fahrenheit • Includes one wireless sensor..... **\$39.99**
THR-138 Extra Sensor **\$24.99**



RM-116E Exactset™ Radio Controlled Clock (left) The most accurate of alarm clocks. Sets itself automatically by receiving time signals from the U.S. Atomic Clock. Features blue HiGlo™ backlight LCD, snooze, day/month/seconds and automatic adjustment for Daylight Savings Time **\$29.99**



BA-812E Weather Clock (right) Unique bedside or desktop alarm clock features auto weather forecasting technology with easy-to-understand graphical weather icons. Displays indoor temperature and features a HiGlo™ backlit LCD..... **Closeout \$19.99**

SECURITY ITEMS

PE-319 Pedometer with Personal Security Stay at ease while exercising away at home. This pedometer features a 120dB panic alarm for personal security and emergency. Displays elapsed workout time, distance walked and a 12/24 hour clock on its backlit 2-line LCD display. **\$19.99**



ICOM

AIRCRAFT

A-22 VHF Air Band Transceiver Covers (COM) 118-136.975, (NAV) 108-117.95 MHz and memory channels. Programmed scan, memory scan and lock • 5W output • Instant 121.5MHz • NAV features: 200 channel VOR nav with CDI, radial heading TO/FROM VOR, auto bearing set • Semi-duplex, combines VOR/COM operation • Includes NiCad rechargeable battery and wall charger • 2.5" w x 7.75" h x 1.5" d, 1.4 lbs. **\$399.99**

MARINE

IC-M3A Mini Hand-held Marine VHF Radio (left) All U.S., international and 10 weather channels with alert • Independent channel 16 • Full function and priority scanner • Dual/tri-watch monitors channel 16 while operating another • 1W/5W • Backlit display • Water resistant • Includes 6 NiCads and wall charger • 2.25" w x 5.5" h x 1.75" d, 14.4 oz. **\$159.99**

IC-M1V Marine Handheld (right) All US, Canadian, international and weather channels with alert • Normal and priority scan • "Tag" scan system • 5W • Dual/tri-watch • PC programmable • Alphanumeric • Waterproof • 1400mAh li-ion battery • 2.1" w x 5.5" h x 1.18" d, 9.9 oz. **\$249.99**



IC-M402W02 Marine VHF Radio All US, Canadian, international and 10 WX channels with alert • Normal/priority scan • Dual/tri-watch • 2-digit LCD with scrolling channels • 4-level backlighting • Key illumination • DSC capability • Built-in SC-101 selective calling • GPS repeater (with added GPS) • "Tag" scan • 25W/1W • Waterproof • 6" w x 2.6" h x 5.5" d, 2 lbs. **\$199.99**

IC-M45AW VHF 25W Marine Transceiver Water-resistant gaskets, including mic • One-piece aluminum diecast chassis • Large backlit display • "Tag" scan system adds/deletes channels at switch push • "Smart" mic changes channels or selects power without using panel • Dual/tri-watch monitors channel 16 while operating another • All international, US channels and 10 weather channels w/alert • Instant access to ch. 16 and call channel • Low battery indicator • 0.79" h x 2.36" w x 5.5" d. **\$149.99**



M-710 SSB Marine Transceiver Rugged, 150W SSB transceiver, 1136 channels with 160 user-programmable memories, PC programmable, alphanumeric readout on large LCD.

M-710 (21) General version without 2182kHz alarm, marine bands only. **Special Order \$1399.99**

M-710-05 (22) Open version, covers 1.6 to 27.5 MHz, has 2182kHz alarm **Special Order \$1599.99**

M-710RT SSB Marine Transceivers Same as the 710 series with computer-controllability, included Smart Mic (option for 710 series), and remote head. It also offers the option of adding a second remote head to create a second control station and/or produce an intercom system.

M-710RT-21 Without 2182kHz alarm, marine bands only. **Special Order \$1699.99**

M-710RT-22 Open - covers 1.6-27.5MHz - and has 2182kHz alarm. **Special Order \$1899.99**

Used Demo

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uniden

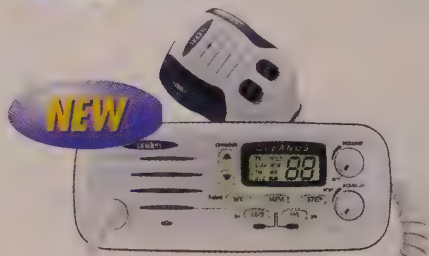
MARINE

HH-940P Marine VHF Handheld (left) All US, international, Canadian and 10 weather channels • Programmable memory • All channel scan • Instant channel 16 and 9 • Triple watch • Weather alert • Electronic touch controls • Super twist backlit LCD • 1W • Keypad lockout • Battery charge indicator • Waterproof/submersible • Rechargeable NiCad battery, belt clip, wrist strap, drop-in charger • 2.5" w x 1.25" d x 4.813" h, 8.8 oz. **\$139.99**

HH-985 Marine VHF Handheld (right) All US, international, Canadian and 10 weather with S.A.M.E. • All/selectable channel scan • Instant channel 16 and 9 • Triple watch • Electronic touch controls • 5/1W • Battery charge indicator • Waterproof • Rechargeable NiCad battery, secure latch belt clip, wrist strap, drop-in battery capability • 2.5" w x 1.5" x 5.25" h, 8.8 oz. **\$149.99**



ATLANTIS Handheld 2-Way VHF Marine Durable and reliable for any marine activity • All USA/international marine channels • JIS4/CRF46 waterproof level • 1W/5W output, switchable • Instant channel 16/9 • Triple watch • All N.O.A.A. weather channels with WX alert • Backlit keypad for easier twilight/night operation • Memory channel scan • Flexible rubber antenna **\$99.99**



OCEANUS Full-Featured VHF Marine Radio All USA/international marine channels • 25/1 Watt output • Ultra-compact, rugged construction • QuikCommand™, one-touch channel 16/9 key on microphone • New, durable, rubber grip microphone • Backlit keypad for night or low light • Triple watch • Memory scan • Weather alert and scan • LCD display and dimmer • External speaker jack • Public address **\$139.99**



SOLARA 25W VHF Marine Radio Full-featured • All USA/international marine channels • Instant channel 16 • 10 weather channels • Selectable 1/25 Watt output • High visibility LED display • Front mounted speaker for improved sound quality • Transmit LED indicator • Weather resistant housing, microphone and connector **\$99.99**

KENWOOD



MARINE

TKM-707 SSB Marine Transceiver A high-performance unit designed to meet stringent marine operation demands. Utilizes heavy-duty, rustproof, aluminum chassis and highest quality parts to maximize performance • 150W RF output • 2-23MHz marine operation with 500kHz-30MHz general receive • 198 memories • Multi-scanning • Emergency alarm built-in. **Special Order \$1249.99**



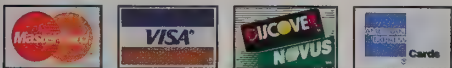
We accept I.M.P.A.C.® Government Credit Cards

YAESU

AIRCRAFT

VXA-120 Aviator Pro II 4W • Direct frequency entry • 2-way tilted display • 3-way display titling • Internal sidetone • 150 memory channels • 10 NOAA channels • Automatic active weather channel scan • Auto Noise Limiter • Priority dual watch • Battery saver • PC programmable • MIL-STD 810 approved • NiCad battery, headset adapter, belt clip, antenna included... **\$229.99**

VXA-200/16-SU Aviator Pilot II Offering communications, navigation indicator and safety aid in one HT. • AM: 118.000-136.975 (COM band) tx • AM/FM: 108.00-117.975 (NAV band), 118.000-136.975 (COM band) rx • 5W/1.5W with supplied battery • 150 memories • Direct frequency entry • NOAA weather receive (U.S. only) • NAV band VOR navigation display • One-touch emergency • ANL • Skip scan • Split channel • Temperature readout • Barometric pressure, altitude and density altitude • MIL-STD 810 • JIS-4 water resistant • External DC input • Helical antenna, rechargeable NiCad battery pack (7.2V, 700 mAh), overnight charger, belt clip, headset cable • 2.02" w x 4.3" h x 1.18" d, 12.2 oz..... **\$399.99**



We accept I.M.P.A.C.® Government Credit Cards

ADI

SINGLE BAND HANDHELDS

The AT-201HP and 401HP are advanced single band HT's with 40 memory channels, programmable band scan, auto repeater offset, frequency or channel display and more. The units have rugged metal cases with backlit keypads and displays. 12V batteries come standard, providing 5W of RF power. • MARS/CAP capable • 40 memories • CTCSS enc/ decode • Programmable band and memory scan • DTMF paging • Dual frequency watch • Auto repeater offset • User selectable frequency or channel display modes.

AT-201HP 2M Handheld Transmit: 144-148MHz • Receive range: 130-179MHz • 4.25" h x 2" w x 1.3" d excluding battery pack **\$99.99**

AT-401HP 70cm Handheld Transmit: 430-450 MHz • Receive: 420-470MHz • 4.25" h x 2" w x 1.3" d excluding battery pack **\$159.99**

Available Accessories

ARC12 Smart charger, CBP262 6 AA NiCad battery holder, CHA072 Wall charger for RBP072, CHA120 Wall charger for RBP120/RBP22, MQA999 Rapid charger, PCA145 Cigarette lighter cable, RBP072 7.2V 700mA NiCad, RBP120NMH 13.2V 1kHz NiMH, SD911 Rapid charger, SLC200 2.5W carrying case, SLC200L 5W carrying case



The PR-52 and PR-222 handhelds expand your horizons beyond "average" VHF operation, and onto the enjoyable 222MHz amateur band or the 6m "DX" band. These 5-watt, palm-sized units bring you the portability and power you need to fully explore two great VHF bands. Other common features include 5W output with included NiCad battery pack • MARS and CAP capable • Built-in CTCSS encode and decode • 40 memory channels store any tone or offset

• Direct frequency entry using 16 button keypad • Frequency or channel display modes • PC programming capability or cable cloneable.

PR-52 6 Meter Handheld Transceiver Transmit: 50-54 MHz • Receive: 40-54MHz • 4.25" h x 2" w x 0.25" d excluding battery pack **\$159.99**

PR-222 220MHz FM Handheld Transceiver TX: 222-225MHz • RX: 216-228MHz • 4.25" h x 2" w x 0.25" d excluding battery pack **\$169.99**

Available Accessories

CBP263 AA battery case, MQA999 Rapid charger, PTC001 Mobile power pack, RBP22H 12V 1000mA NiMH, SD911 Rapid charger, SLC22L Leather case, PRESMP400LPT Boom/lapel mic with PTT



FREE ITEMS included with some radios.
See Price Guide for details.

Alinco – Supercharged!

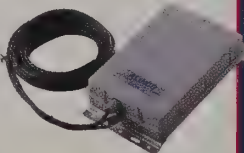
DM-330MVT Communications Grade Switching Power Supply

Tiny but powerful with great reviews! Ultra quiet with patented noise shift circuit, but we'll be surprised if you need to use it.

30A continuous, 32A peak output, weighs less than 5 lbs. Variable output from 5 ~ 15 VDC, memory output setting, illuminated V/A meter, Front panel cigar (10A) and quick-connect (5A) terminals, rear panel high-current connections. Ripple less than 15 mV p-p. Perfect for travel, station or test bench use. There's no switching supply like it!

EDX-2 Automatic Wire Antenna Tuner

Get on the air fast! Tunes random length wires from 9 ~ 80 feet. Covers 160 ~ 10 meters. (minimum 40 feet of wire needed for use on 160m) Compatible with DX-70 and DX-77 transceivers. Made for outdoor mounting, use at home, mobile or marine. Outputs to wire antenna (or whip) only (no coax output).



DJ-X2000T Multimode Wide Range "Intelligent" Receiver

It's the "Intelligent Receiver" covering from 100 KHz ~ 2150 MHz* with 2000 memory channels, alphanumeric labeling, receives AM, WFM, NFM, LSB, USB, CW and FM stereo. On-line "help" feature, 20 scan programs, computer programmable (download free software from Alinco website), Channel Scope™ display, Transweeper™, RF frequency counter, digital sound recorder, CTCSS decode, 2 level attenuator, field strength meter, instant "flash tune" and much, much more! Download free control software from www.alinco.com



DJ-X2T "Credit Card" Scanning Receiver

"Credit Card" size, tunes 500 KHz ~ 1 GHz*, 700 memory channels, AM, NFM, WFM modes, SMA antenna connector, 3 different antenna modes, internal AM ferrite bar, illuminated display, RF "sniffer", internal lithium ion battery snap-on dry-cell power pack and more! Free control software at Alinco web site.



DJ-X3T Multimode Wide Range Communications Receiver

Revolutionary design! Receives 100 KHz ~ 1.3 GHz*, AM, NFM, WFM. 700 memory channels, NiMH battery, four scan modes, stereo FM reception (with optional headphones). Download free control software from www.alinco.com



DJ-X10T Multimode Wide Range Communications Receiver

100 KHz ~ 2 GHz* 1200 memories, alphanumeric display, Channel Scope™ display, receives WFM, NFM, USB, LSB, AM and CW. Internal HELP feature, seven scan modes, clock with on/off function, "new user" and "expert" operating modes, BNC antenna connector, cloning function, affordable Alinco price and much more!



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* Cellular blocked in USA. Unblocked versions available to qualified users. Documentation required. Specifications subject to change without notice or obligation. Performance specifications only apply to amateur bands.

Simple ■ Clean ■ Dependable



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AMATEUR RADIO'S VALUE LEADER™

www.alinco.com



SINGLE BAND HAND-HELDS

DJ-S11T Sub-Miniature VHF HT TX/RX: 144-148 MHz • 340 mW output • 20 multi-function memories plus 1 call • Encoder installed (50 tones) • Illuminated display • Use 3 AA or NiCad battery • Pivoting antenna • 4" h x 2" w x 1" d, 6.5 oz..... **\$79.99**

Available Accessories

EB6 Mobile HT bracket, EDC78 Wall charger (not alkaline),

EDH18 12V/5.5V DC cigarette lighter plug, EME12 Headset/earphone/microphone with VOX, EME13 Headset/earbud/microphone with VOX, EME15 Earphone/microphone with VOX, EME16 Tie-pin microphone with earphone, EME17 Boom earphone microphone, EME20 Tie-pin mic/earphone, EME6 Earphone, EMS47 Speaker microphone with volume control, ESC27 Soft case



DJ-196T 2M HT 5W output • 135-174MHz rx • 40 multi-function memory channels • MAR/CAP capability • Alpha-numeric display • CTCSS tone encode/ decode and DCS • S-meter • Auto dialer • Cable cloning • PC programming capability • Theft alarm • Experimental insect repel • Back lit keypad • 4.9" h x 2.2" w x 1.6" d, 13.2 oz..... **\$139.99**

DJ-496T 440 HT Same as DJ-196T (above) except has a range of 430-450MHz..... **\$149.99**

Available Accessories

EB6 Mobile HT bracket, EBP48N 9.6V 700mA 5W NiCad battery, EBP50N 9.6V 700mA 5W NiMH battery, EBP51N 9.6V 1500Ma 5W NiMH battery, EDC16B Cigarette lighter cable and filter, EDC36 Angle plug power cable with filter, EDC37 13.8V power cable, EDC43 Cigarette lighter cable, EDC88 Rapid charger, EDC97 NiMH quick charger, EDH30 Dry cell battery case, EME12

Headset/earphone/ microphone with VOX, EME13 Headset/ear bud/ microphone with VOX, EME15 Earphone/microphone with VOX, EME16 Tie-pin microphone with earphone, EME17 Boom earphone microphone, EME20 Tie-pin mic/earphone, EME6 Earphone, EMS47 Speaker microphone with volume control, ERW4 PC cable, ESC36 Soft case for EBP48N



DJ-280TH 220MHz FM HT Simple operation with advanced technology. 5W output with supplied 12V NiCad battery pack • Transmit: 222-225MHz; Receive range: 220-224.995MHz • 10 multi-function memory channels (expandable to 50 or 200 channels) • Enc/decoder installed • 1750Hz tone burst • Auto power off • Low battery indicator • Highly visible illuminated LCD display • 16 digit DTMF pad • Non-standard repeater offset capable • 5.2" h x 2.3" w x 1.3" d, 11.3oz..... **C/O \$189.99**

Available Accessories

EB3 Belt clip, EBP24N 7.2V 1200mA battery, EBP28N 12V 700mA NiCad battery, EDC16B Cigarette light cable with filter, EDC36 Angle plug power cable with filter, EDC37 13.8V power cable, EDC43 Cigarette lighter cable, EDC45 Desk quick charger, EDC49

Battery charger for EBP24/26/28N, EDH11 Battery holder EDH12 DC jack adapter EJ14U 50 channel memory EJ15U 200 channel memory EME11 Ear-phone mic with PTT/VOX, EME12 Headset/earphone/microphone with VOX, EME13 Headset/ear bud/microphone with VOX, EME15 Earphone/microphone with VOX, EME16 Tie-pin microphone with earphone, EME17 Boom earphone microphone, EME20 Tie-pin mic/earphone, EME6 Ear-phone, ESC18 Case for EBP26N, ESC19 Case for EBP28N



DUAL BAND HANDHELDS

DJ-596T 2M/440MHz Dual Band HT The first Amateur HT to support optional digital voice communications. • 5W output on both bands with standard NiMH battery • Wide or narrow FM • Digital voice with optional EJ-43U board • Extended receive capabilities • CTCSS and DCS encode and decode • Three scan modes • Work and save in memory any number of "odd split" transmit/receive offsets • Illuminated keys and display • Large display shows alphanumeric designations for each of the 100 memory channels • Theft alarm and experimental "mosquito repelling sound" • Nine, autodial memories

• External terminal control can output 5 VDC @ 5mA from the mic jack, which can be used by experimenters to control external devices • Operates on 6-16 VDC, battery also charges while on external power source • 4.9" h x 2.2" w x 1.6" d, 13.2 oz..... **\$209.99**

Available Accessories

EB6 Mobile HT bracket, EBP48N 9.6V 700mA 5W NiCad battery, EBP50N 9.6V 700mA 5W NiMH battery, EBP51N 9.6V 1500mA 5W NiMH battery, EDC16B Cigarette lighter cable and filter, EDC36 Angle plug power cable with filter, EDC37 13.8V power cable, EDC43 Cigarette lighter cable, EDC88 Rapid charger, EDC97 NiMH quick charger, EDH30 Dry cell battery case, EJ43U Digital board, EME12 Headset/earphone/microphone with VOX, EME13 Headset/ear bud/ microphone with VOX, EME15 Earphone/microphone with VOX, EME16 Tie-pin microphone with earphone, EME17 Boom earphone microphone, EME20 Tie-pin mic/earphone, EME6 Earphone, EMS47 Speaker microphone with volume control, ERW4 PC cable, ESC36 Soft case for EBP48N

DJ-C5T Credit Card Sized 2M/440MHz Dual Band HT 300mw output • TX: 144-147.995 & 420-449.995MHz • RX: 118-173.995 and 420-449.995MHz • 50 memories • CTCSS tone enc/dec standard • Volume/squelch control • Keylock • Auto power off with Morse Code alert • Mic/earphone jack • TX lamp • Free offset • Reverse monitor • Scan function with skip setting • Multi Euro tone bursts • Battery save & channel display modes • AM aircraft receive with expanded

VHF wideband reception • Rechargeable 3.8V lithium-ion battery • 2-hour "snap-in" charger • Soft case • 3.75" h x 2.25" w x 0.43" d, 3 oz..... **\$149.99**

Available Accessories

EDC16B Cigarette light cable with filter, EDC36 Angle plug power cable with filter, EDS7 Microphone adapter, EME12 Headset/earphone/microphone with VOX, EME13 Headset/ear bud/microphone with VOX, EME15 Earphone/microphone with VOX, EME16 Tie-pin microphone with earphone, EME17 Boom earphone microphone, EME18 Earphone, EME20 Tie-pin mic/earphone, EMS49 Mini lapel speaker microphone, EMS50 Speaker microphone, ESC34 Soft case with belt clip

FREE ITEMS included with some radios.
See Price Guide for details.



DJ-S40T Pocket-sized UHF HT Covers 420-450MHz, with receiving capabilities beyond the range. 500mW power output but can be increased to 1W by using the optional NiMH battery or external DC supply. • 100 memories • Call channel and several scan modes • Newly designed case that conceals the speaker but provides loud, clear audio • 38 CTCSS encode/decode settings (decode standard) • 4 tone bursts, making it usable for repeaters in many parts of the world • Large, easy-to-read, illuminated display • Experimental "mosquito repelling feature" • Theft alarm function • Cloning capability • Use with crossband transceivers (base or mobile dualband) as a "remote mic" **\$89.99**

Available Accessories

EB6 Mobile HT bracket, EBP-52N 3.6V 500mA NiMH battery, EBP-53N 6.0V 500mA NiMH battery, EBP-54N 3.6V 1500mA NiMH battery, EDC105 Drop-in NiMH charger without power supply, EDC37 13.8V power cable, EDC43 Cigarette lighter cable, EDC93 Wall power supply for EDC105, EDH31 Dry cell battery case, EME12 Headset/earphone/microphone with VOX, EME13 Headset/ear bud/microphone with VOX, EME15 Earphone/microphone with VOX, EME17 Boom earphone microphone, EME20 Tie-pin mic/earphone, EME6 Earphone, EMS47 Speaker microphone with volume control, EMS8Z Remote speaker mic, ERW4 PC cable, ESC38 Soft case

Look For This

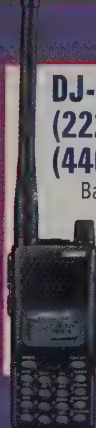
NEW

& Check Out AES' Latest Additions.



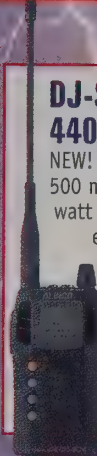
DJ-V5TH, 2m/440 HT*

Great 2m/440 TX & RX, extended RX range from 76 ~ 999 MHz, includes wide band FM, alphanumeric display, 200 memories, CTCSS & DCS encode+decode, 5 watts output, compact size, 4 scan modes, 5 scan banks, split-band operation for satellite ops, auto-dialer, 13.8 VDC direct input.



DJ-196T (2m), DJ-296T** (222 MHz), DJ-496T (440 MHz) HT

Backlit keypad, alphanumeric display, 40 memories, CTCSS and DCS encode+decode, auto dialer, theft alarm, 13.8 VDC input, experimental mosquito-repel tone and more! High-power battery is standard.



DJ-S40T 440 MHz HT

NEW!

NEW! This "gen2" pocket HT features 500 mw output on AA cells, up to one watt using optional battery pack or external DC power. 100 memories, CTCSS encode+decode, SMA antenna, illuminated display, new speaker design, theft alarm and more! Uses standard Alinco speaker/mic accessories.

DJ-S11T (2m),

"Pager size" transceiver, 340 mw output, great TX and RX audio. Self-storing pivot antenna, uses AA batteries, 21 memories, CTCSS encode, fits in pocket or purse. Amazing low price! Mobile DC cable and speakers mics also available.



Unleash the Power!

Alinco lets you unleash real communications power at "down to earth" prices!

DJ-C5T 2m + 440 "Credit Card" FM HT

Amazing "credit card" size, internal speaker, 50 memories, CTCSS encode+decode, AM airband RX, 300 mw output, soft case, 600 mAh lithium ion battery, includes rapid charger!



DJ-596T 2m + 440 HT

100 memories, alphanumeric channel labels, powerful NiMH battery, CTCSS and DCS encode+decode, wide and narrow FM modes, autodial memories, theft alarm feature, accepts 6 ~ 16 VDC direct input, illuminated keys and display, autodial memories, full 2m and 440 band coverage plus expanded receive; accepts optional digital voice communications board and more!



DR-605TQ 2m + 440 FM Mobile/Base

A super value! 50 watts VHF/35 watts UHF, 51 memories/band, 430 ~ 449.995 range allows for satellite work, crossband repeat, 9600 packet port, dual band, dual RX. Check the LOW price!



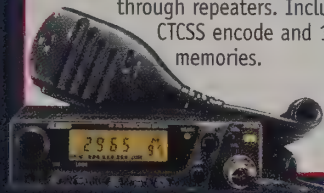
DR-135T (2m) DR-235T (222 MHz) DR-435T (440 MHz) Mobile/Base

DR-135 also includes AM Airband RX. All models feature 100 memories, ignition key on/off, theft alarm, large 7 character alphanumeric display, optional internal packet TNC can be used for regular packet or APRS™, true 9600 packet mode, front panel data/GPS input, rear panel DSUB9 connector, H/M/L power output settings, 10 autodial memories, CTCSS and DCS encode+decode, backlit mic, sturdy construction and more! Accepts optional digital voice communications board.



DR-M06TH 6m/20 watts FM Mobile/Base

Enjoy the "magic band" with local and DX FM contacts, simplex or through repeaters. Includes CTCSS encode and 100 memories.



DX-70TH (100w) HF + 6m Mobile/Base/Portable

160 ~ 6m Amateur band TX in all modes, general coverage RX from 150 KHz ~ 30 MHz and 50 ~ 54 MHz. Removable face, 2 VFOs, 100 memories, speech compressor, SSB, CW and AM narrow filters, full, semi or automatic break-in, multi-function control and MUCH more! Ask about EDX-2 wire antenna tuner & DM-330MVT power supply.



DX-77T HF Base/Portable

Value leader! 160 ~ 10 meter Amateur band TX in all modes; 500 KHz ~ 30 MHz general coverage RX. Clean, clear audio, low noise floor from DDS, 100 memories, easy to operate. Speech compressor, CTCSS encode for 10m FM operation, CW filter included. Ask about EDX-2 wire antenna tuner and DM-330MVT power supply!



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**Transceivers intended for use by properly licensed operators. Permit required for MARS use. Specifications subject to change without notice or warning.

Performance specifications only apply to amateur bands. APRS is a registered trademark of Bob Bruninga, WB4APB.

† This device has not been approved by the FCC. This device may not be sold or leased, or offered for sale or lease, until approval of the FCC has been obtained.

DJ-V5TH VHF/UHF Dual Band FM HT Full 2 meter and UHF Amateur band coverage • Standard high-power 700 mAh NiCad battery pack – up to 5W output • 3 output settings • Expandable receive range 76–999MHz (cellular blocked), includes wide FM capability • Split-band operation capability • Eight different tuning steps • Alpha-numeric display – up to 6 characters • 200 memory channels plus two call channels • CTCSS encode/decode • DTMF squelch • 4 different European tone bursts • 4 scan modes and 5 programmable scan banks • MARS/CAP capability • Auto-dial memories • Auto high temperature protection feature • SMA antenna connector • Wire cloning capable • Accepts up to 13.8V DC input • 4.5" h x 2.25" w x 1.75" d, 13 oz..... **\$209.99**

Available Accessories

EBP45N 6V 700mA 2W NiCad battery, EBP46N 9.6V 600mA 5W NiCad battery, EDC16B Cigarette light cable with filter, EDC36 Angle plug power cable with filter EDC37 13.8V power cable EDC43 Cigarette lighter cable, EDC91 Quick charger, EDH29 Dry cell battery case, EME12 Headset/earphone/microphone with VOX, EME13 Headset/earbud/microphone with VOX, EME15 Earphone/microphone with VOX, EME16 Tie-pin microphone with earphone, EME17 Boom earphone microphone, EME20 Tie-pin mic/earphone, EME6 Earphone, EMS47 Speaker mic with volume control, EMS8Z Remote speaker mic, ESC35 Soft case for EBP45N/46N



minum chassis and super tough polycarbonate casing • Meets MIL SPEC C/DE for shock and vibration • Includes battery holder and uses alkalines (not included) • 2.3" w x 5.5" h x 1.3" d, 14.8 oz. **\$99.99**

Available Accessories

AD81 Adapter for BC11911, BC110A Wall charger, BC11901 Desk charger, BC122A AC adapter for BC133, BC133 Drop-in trickle charger, BP194 "AA" alkaline battery case, BP195 700mA 9.6V battery, BP196 1050mA 9.6V battery, CP12L Right angle cigarette cable with filter, CP17L Right angle cigarette cable for charger, CS22 DOS programming software, CSWHH4 Windows software with cable, HM128 Earphone + mic, HM46 Slim-line speaker mic, HM54 Heavy-duty speaker mic, HM75A Remote control mic, HS51 Headset/VOX, HS94 Earpiece headset/use with VS1L, LCF3GSWIVEL Leather case with swivel, LC145 Carrying case, MB68 Extra standard belt clip, MB74 Spring loaded belt clip, MB87 Swivel belt clip, OPC254L Right angle mini DC power cable, OPC474 Radio-to-radio clone cable, OPC478 PC cable, SP13 Earphone, VS1 VOX-PTT unit for HS94

With the IC-T2H SPORT and a PC you can download up to 40, stored, pre-programmed frequencies, such as in a repeater directory, from your PC directly into the SPORT. PC-to-SPORT and SPORT-to-SPORT cloning requires optional software and cables.



trickle charger which operates from 12VDC either in the home or in the car; charge radio with battery or battery alone • Use a PC to set-up operating parameters using CS-V8 computer software • Durable green polycarbonate front panel and aluminum die-cast chasis built to military-grade specs • 2.125" w x 5.188" h x 1.375" d, 12.3 oz..... **\$149.99**

Available Accessories

BC14401 Desk charger with adapter, BP208 Battery case, BP209 7.2V 1100mA 5.5W battery, BP210 7.2V 1650mA 5.5W battery, BP222 7.2V 600mA 5.5W battery, CP17L Right angle cigarette cable for charger, CSV8 Cloning software, HM46L Slim-line speaker mic with right angle plug, HM54 Heavy-duty speaker mic, HM75A Remote control mic, HS51 Headset/VOX, HS94 Earpiece headset/use with VS1L, LCF3GSWIVEL Leather case with swivel, MB68 Extra standard belt clip, MB74 Spring loaded belt clip, MB87 Swivel belt clip, OPC474 Radio-to-radio clone cable, OPC478 PC cable, OPC515L Right angle DC cable for charger, SP13 Earphone, UT108 DTMF decoder unit, VS1L VOX-PTT unit for HS94

ICOM®

2M SINGLE BAND HANDHELS

IC-2GXAT/HP 2M Transceiver 7W output @ 13.5 V DC • 144–148MHz rx (136–174MHz expandable) • 40 mem. channels • 700mAh battery • Auto repeater operation • Tone scan • DTMF redial and five auto dial memories • 350 mW audio • Selectable DTMF speed • Built-in PL enc/dec • 35mA current drain • 2.2" w x 4.9" h x 1.4" d, 12.9 oz..... **\$249.99**

Available Accessories

AD25 Battery charger adapter, AD28 Battery pack adapter/rapid charger, BC105A Wall charger, BC11911 Desk charger, BC119N11 NiCad/NiMH desk charger, BP130A Battery case, BP157A 900mA 7.2V battery, BP174 600mA 12V battery, CP13 Cigarette cable with filter, CP13L Right angle cigarette cable with filter, HM128 Earphone + mic, HM46 Slim-line speaker mic, HM46L Slim-line speaker mic with right angle plug, HM54 Heavy-duty speaker mic, HS51 Headset/VOX, LC116 Case for 2GXAT/BP130/157A/160, LC117 Case for 2GXAT/BP132A, MB30 Mobile or wall bracket, OPC288 Mini DC power cord, SP13 Earphone, UT49 DTMF decoder



IC-T22A 2M Handheld 5W output @ 13.5 V • 4.0 - 16 VDC input • 136–174MHz rx • Auto low power/power saver (15mA drain) • Remote control microphone (optional HM-75A) • 80 memory channels (40 with alpha display) • VHF/UHF air band receive • Auto repeater function • Backlit display • Die cast aluminum frame and heat sink • Optional tone scan • 2.3" w x 4.3" h x 1.1" d, 10.9 oz..... **\$249.99**

Available Accessories

AD56 Battery pack adapter/rapid charger, BC11911 Desk charger, BC119N11 NiCad/NiMH desk charger, BP170 Battery case, BP172 950 mA 4.8V battery, BP173 600mA 9.6V battery, BP180 600mA 7.2V battery, CP12 Cigarette cable with filter, CP12L Right angle cigarette cable with filter, HM128 Earphone + mic, HM46 Slim-line speaker mic, HM46L Slim-line speaker mic with right angle plug, HM54 Heavy-duty speaker mic, HM75A Remote control mic, HS10 Boom mic/headset, HS10SA VOX unit, HS10SB PTT switchbox, HS85 Headset with VOX, LC125 Case for T22A with BP170/71/72, LC126 Case for T22A with BP173, MB30 Mobile or wall bracket, NCP1 Nylon chest pack, OPC254 Mini DC power cable, OPC254L Right angle mini DC power cable, SP13 Earphone, UT94 Tone squelch

DUAL BAND HANDHELS

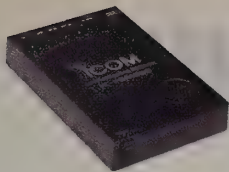
IC-Q7ABC Ultra Compact 2M/440MHz Dual Band HT with Full Feature Scanner Extra easy to use and wide FM performance • Output power: 350mW (VHF), 300mW (UHF) • Transmit: 144–148MHz and 440–450MHz triple conversion • Receive: 30–1300MHz (cell blocked on U.S. model) • 200 memories • Superior audio in its class from large 1.4" speaker and 100mW audio output • CTCSS tone



encoder/decoder with pocket beep • Easy to use – only 7 buttons (including power) and a large, easy to grasp tuning dial • Automatic repeater function • Channel operation • Tone scan • 10 tuning steps • Easy reverse • Dual watch • RIT function • Auto power OFF power saver • Manually or automatically controlled LCD back-lighting for easy low light operation • Meets MILSPEC C/D/E for shock and vibration • Includes 2 AA-size NiCads, or "AA" alkalines • 2.3" w x 3.75" h x 1.1" d, 6 oz..... **\$129.99**

Available Accessories

AD92SMA SMA-BNC adapter, BC127A Charger for 2 or 4 "AA" NiCads, HM128 Earphone + mic, HM46 Slim-line speaker mic, HS85 Headset with VOX, LC146 Carrying case, OPC782 Plug adapter cable, SP13 Earphone



"The PCR1000 has something to intrigue and satisfy everyone. This is a fun product." — QST, 7/98

IC-PCR1000 The original black box

The IC-PCR1000 turns your PC into a Wide Band Receiver! Compatible with most PC's and laptops*, the PCR1000 connects externally - in minutes! Choose from three different onscreen interfaces tailored to suit your needs, whether beginner or pro.

- 100 kHz – 1.3 GHz†
- AM, FM, WFM, USB, LSB, CW
- Unlimited Memory Channels
- Real Time Band Scope
- IF Shift
- Noise Blanker
- Digital AFC
- Voice Scan Control ("VSC" when activated, stops only on modulated signals)
- Attenuator
- Tunable Bandpass Filters
- AGC Function
- S Meter Squelch
- CTCSS Tone Squelch
- Large Selection of Tuning Steps and Scans
- External Speaker Level Control
- Optional DSP



computer not included
*Windows 3.1/95 only



IC-R75 Pull out the weak signals

The IC-R75 covers a wide frequency range allowing you to listen in to a world of information. With innovative features like twin passband tuning, synchronous AM detection, DSP capabilities, remote PC control and more - shortwave listening is easier than ever. All this comes in a compact, lightweight package that can be conveniently used in your ham shack, den or car.

- 30 kHz - 60.0 MHz
- AM, FM, S-AM, USB, LSB, CW, RTTY
- 101 Alphanumeric Memory Channels
- Twin Passband Tuning (PBT)
- Commercial Grade
- Synchronous AM Detection (S-AM)
- Optional DSP with Auto Notch Filter
- Triple Conversion
- Up to Two Optional Filters
- Front Mounted Speaker
- Large Display
- Well Spaced Keys and Dials
- PC Remote Control with ICOM Software for Windows® (RSR75)

"A versatile HF/G-meter receiver that offers a good measure of performance in a compact package. All mode capability for the ham and utility listeners and synchronous AM for the SWLs should make the IC-R75 a popular choice for a wide variety of radio enthusiasts." — QST, 1/00

TUNE IN THE WORLD WITH ICOM



IC-R8500 The experts choice

ICOM technology brings you super wide band, all mode coverage from HF to 2GHz, including shortwave and VHF/UHF, while maintaining a constant receive sensitivity. The IC-R8500 is not simply a scanner - it's a professional quality communications receiver with versatile features from high speed scanning to computer control.

- 100 kHz - 2.0 GHz†
- AM, FM, WFM, USB, LSB, CW
- 1000 Alphanumeric Memories
- Commercial Grade
- IF Shift
- Noise Blanker
- Audio Peak Filter (APF)
- Selectable AGC Time Constant
- Digital Direct Synthesis (DDS)
- RS-232C Port for PC Remote Control with ICOM Software for Windows®

"If you want a receiver that is both a superior world band radio and a solid scanner, the new ICOM IC-R8500 is the best choice."

— Passport to World Band Radio, 1998

IC-R2

Excellent audio, tiny package

The 'R2's compact size, only 2 1/4" wide by 3 3/8" high by 1" thick, allows you to have a "world of listening" in the palm of your hand. Large internal speaker delivers loud, clear audio - so you can hear everything.

- 500 kHz – 1.3 GHz†
- AM, FM, WFM
- 400 memory channels
- CTCSS Decode
- Easy Band Switching
- Priority Watch
- MIL SPEC 810C/D/E
- Weather Resistant
- Includes 2 AA Ni-Cds & Charger.



"The IC-R3 communications receiver is more than just another scanner. With live video reception of broadcast and amateur television, and short range RF based video systems,

icom has opened up a new frontier for the progressive wide spectrum scanner enthusiast."

— QST, 2/01

IC-R3

See & Hear all the action

Wide tuning range allows you to see and hear the excitement behind the scenes. Large easy to read color display for frequency settings and video reception.

- 500 kHz – 2.45 GHz†
- AM, FM, WFM, AM-TV, FM-TV
- 450 Alphanumeric Memories
- CTCSS with Tone Scan
- 4 Level Attenuator
- Telescoping Antenna with BNC Connector
- 2" Color TFT Display with Video/Audio Output
- Lithium Ion Power



IC-R10

Advanced performance

With the 'R10 you can tune in the world where ever you go. With a Real-time bandscope and Voice Scan Control to make it easy to find all the action.

- 500 kHz – 1.3 GHz†
- AM, FM, WFM, USB, LSB, CW
- 1000 Alphanumeric Memories
- Attenuator
- Alphanumeric Backlit Display
- VSC (Voice Scan Control)
- 7 Different Scan Modes
- Beginner Mode
- Band Scope
- Includes AA Ni-Cds & Charger



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ICOM®



IC-T7H 2M/440MHz Dual Band HT 5W with standard battery (9.6V/650mAh) • Up to 6W @ 13.5V DC (optional DC power cable required) • TX 144-148 MHz, 440-450MHz; RX 118-174 MHz, 400-470MHz • 250mW+ audio output • One-touch band switching • Priority watch • 70 memories • 9 DTMF memories for auto dialing • CTCSS tone enc/decode • 50 independently programmable tone frequencies

- Auto power save and repeater function • Auto OFF
- Thumb-touch lock settings feature • Internal guide • Backlit LCD • Wall charger • Programmable

• 2.3" w x 4.8" h x 1.1" d, 14.3 oz..... **\$199.99**

Available Accessories

AD56 Battery pack adapter/rapid charger, BC11911 Desk charger, BC119N11 NiCad/NiMH desk charger, BP170 Battery case, BP172 950mA 4.8V battery, BP173 600mA 9.6V battery, BP180 600mA 7.2V battery, CP12 Cigarette cable with filter, CP12L Right angle cigarette cable with filter, CST17 DOS programming software, CSWHH4 Windows software with cable, FA1443B 2M/440 duck, HM128 Earphone + mic, HM46 Slim-line speaker mic, HM46L Slim-line speaker mic with right angle plug, HM54 Heavy-duty speaker mic, HM75A Remote control mic, HS10 Boom mic/headset, HS10SA VOX unit, HS10SB PTT switchbox, HS85 Headset with VOX, HS94 Earpiece headset, LC136 Case for T7H with BP170/171/172, LC137 Case for T7H with BP173/180, MB30 Mobile or wall bracket, NCP1 Nylon chest pack, OPC254 Mini DC power cable, OPC254L Right angle mini DC power cable, OPC478 PC cable, SP13 Earphone, VS1 VOX-PTT unit for HS94

MULTI BAND HANDHELDS

IC-T81A 6M/2M/440MHz/1.2GHz Quadband 4.5W with BP-200 • Up to 5W @ 13.5V DC (1W on 1.2GHz) • Wide band rx: 50-54MHz, 74-174 MHz, 400-470MHz, 1240-1300MHz (including Airband, cell blocked) • Broadcast FM receive (some TV) • 124 memories, 10 scan edges, 1 call per band • Tone squelch/scan (CTCSS enc/dec) • DTMF encoder, 9 memories • Backlit display • Built-in guide function • NiMH-powered (wall charger included) • Battery voltage indicator • RIT/XIT (VXO) for 1.2GHz • Multi-function "joy-stick" switch • HT-to-HT cloning capability • PC programmable • Water resistant to JIS grade 4 • 2.3" w x 4.2" h x 1.1" d, 9.9 oz..... **\$279.99**

Available Accessories

AD87 Battery pack adapter/rapid charger, AD88 PCB board, AD92SMA SMA-BNC adapter, BC119N21 NiCad/NiMH desk charger, BC11931 Desk charger, BP197 3 "AA" battery case, BP198 700mA 4.8V NiMH battery, BP199 700mA 6V NiMH battery, BP200L 760mA 9.6V NiMH battery, CP12 Cigarette cable with filter, CP12L Right angle cigarette cable with filter, CST81 Windows cloning software, CSWHH4 Windows software and cable, HM128 Earphone + mic, HM46 Slim-line speaker mic, HM54 Heavy-duty speaker mic, HM75A Remote control mic, HS51 Headset/VOX, HS85 Headset with VOX, HS94 Earpiece headset, LC148 Carrying case, OPC254 Mini DC power cable, OPC254L Right angle mini DC cable, OPC474 Radio-to-radio clone cable, OPC478 PC cable, SP13 Earphone, VS1 VOX-PTT unit for HS94

KENWOOD

SINGLE BAND HANDHELD



TH-22ATH 2M FM Handheld This is a super-compact and lightweight transceiver with impressive performance. EZ to use menu system. Palm-sized, sharply styled, easily slips into pocket. • 5W output from MOS FET power module and standard PB-34 NiCad battery • 136-174 receive • RF output control (Hi/Low/EL) • 144-148 MHz coverage • 40 memory channels stored in E²PROM (plus 1 call channel) • Auto repeater offset • Multiple scan functions (VFO, call and mem-ory) • Dual Scan stop modes (CO and TO) • CTCSS encode • DTSS and page • Luminescent keypad and LCD with backlighting • Built-in DTMF keyboard • (5) 15-number DTMF memories • Tone Alert with time indicator • Selectable squelch configuration • Busy channel lock out • Battery voltage indicator • Automatic power off • Drop-in desktop charger • 2.1" w x 6.1" h x 1.12" d, 11 oz..... **\$219.99**

Available Accessories

BT9 Four "AA" battery holder, EMC3 Label clip mic/earphone PC, HMC3 VOX/boom mic headset, KSC14 2 pack rapid charger, KSC8A Drop-in charger, PB33 1200mA 6V battery, PB34 600mA 9.6V 5W battery, PG2W DC cable, PG3J Cigarette cord with filter, SMC32 Mini right angle speaker mic, SMC33 Speaker mic with remote control, SMC34 Speaker mic with volume function keys, TSU8 CTCSS decoder, WR2 Water resistant bag

FREE ITEMS included with some radios.
See Price Guide for details.

DUAL BAND HANDHELDS

TH-G71A Dual Band FM HT

Its ergonomic design, illuminated and back lit display all combine to make operation a breeze. The EZ to use menu system gives full control over all operating settings. • 6W (VHF), 5.5W (UHF) @ 13.8V DC • 2M: 144-148 tx/rx and 118-174MHz extended receive including Aircraft, 440MHz: 430-450MHz tx and 400-470 MHz rx • 200 multi-function memory channels • Memory name function • Multiple scan modes • CTCSS tone scan • DTMF memory (10 channels) • DTMF remote control • Function key lock • Auto battery saver circuit • Auto power-off • Time-out timer • PC ready • High performance antenna • TM-V7A remote control • MIL-STD 810E approved • 2.3" w x 4.4" h x 1.3" d, 11.6 oz..... **\$269.99**

Available Accessories

BC19 Rapid charger, BT11 Four "AA" battery holder, EMC3 Lapel clip mic/earphone PC, HMC3 VOX/boom mic headset, J29063113 Belt clip, PB38 650mA 6V NiCad battery, PB39 600mA 9.6V 5W battery, PG2W DC cable, PG3J Cigarette cord with filter, PG4P PC control cable, SC45 Soft case for G71A with PB38/39, SMC32 Mini right angle speaker mic, SMC33 Speaker mic with remote control, SMC34 Speaker mic with volume function keys, WR2 Water resistant bag



TH-D7A(G) 2M/440MHz Dual Band Data Communicator Equipped with a built-in TNC for simple packet operation or with a GPS as a full function APRS™. Reports position, speed and heading as well as calculation of distance to destination. Can also be used for APRS™ messaging – send up to 45 character messages without a PC. Advanced functions possible with the VC-H1 • 5.5W @ 13.6V DC • 2M: 144-148MHz tx, 118-174MHz rx • 440MHz: 430- 450MHz tx, 400-480MHz rx • 1200/9600 baud TNC • Station list stores data in up to 40 memory channels • Grid square locator display • Dual receive on same band for voice and data (VHF only) • 200 mem. channels • PC programmable for frequency and name (PG-4W required) • 16 backlit keys • CTCSS enc/decode • MIL-SPEC 810C/ D/E water resistant • 10 channel DTMF phone and auto patch memories • TM-V7A and TM-742D DTMF remote • Altitude • Time • 3-position memory • 3-memory text • Position ambiguity • Audible emergency signal • Auto message response • Data band settings • 1750MHz packet burst • 4.75" h x 2.25" w x 1.5" d, 12 oz **\$429.99**

Available Accessories

BC19 Rapid charger, BT11 Four "AA" battery holder, EMC3 Lapel clip mic/earphone PC, HMC3 VOX/boom mic headset, J29063113 Belt clip, PB38 650mA 6V NiCad battery, PB39 600mA 9.6V 5W battery, PG2W DC cable, PG3J Cigarette cord with filter, PG4V VCH1 connector cable, PG4W PC software and cable, SC47B Black soft case, SC47OR Orange soft case, SMC32 Mini right angle speaker mic, SMC33 Speaker mic with remote control, SMC34 Speaker mic with volume function keys

TRIBAND HANDHELD

TH-F6A FM Triband HT

Covers 144/220 and 440MHz plus 0.1-1300 cell blocked (including Aircraft receive). • Dual channel receive capability • FM/FM-W/FM-N/AM plus SSB/CW receive • Ferrite bar antenna for receiving AM • Weather channel RX mode • 435 memories (8 groups of 50 channels) • 3 call channels plus 20 for programmable scan • Multiple scan functions

• 7.4V 1550 mAh lithium-ion battery for 5W and extended operation • 16-key backlit pad plus multi-scroll key • Built-in charging circuitry – battery recharges while unit operates from a DC supply • Built-in CTCSS enc/decode/DCS • Large 8-character alphanumeric frequency display • Wireless remote control • Battery indicator • Internal VOX • MCP programming software via web (using PG-4P) • Meets MIL-STD 810 C/D/E for resistance to vibration, shock and light rain • 3.438" h x 2.313" w x 1.188" d, 8.8 oz (with battery) **\$389.99**

Available Accessories

BT13 AA battery case, EMC3 Lapel clip mic/earphone PC, HMC3 VOX/boom mic headset, PB42L Lithium ion battery, PG2W DC cable, PG3J Cigarette cord with filter, PG4P PC control cable, SC51 Softcase with swivel belt clip, SMC32 Mini right angle speaker mic, SMC33 Spker mic with remote control, SMC34 Spker mic with volume function keys

Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.nesham.com

"With subtle but significant improvements, ICOM has nudged this latest incarnation of the '756 the IC-756PROII even closer to Nirvana."

QST Bottom Line, Feb. 02

IC-PW1. 1kW Linear Amplifier

- Remote Control Head • 100% Duty Cycle
- Compact Size. Can be used with almost any HF, 6M, or HF/6M rig - not just ICOM rigs.

PS-125. DC Power Supply

- More Power - 25 AMPS Continuous • Quieter RF Operation • Smaller Footprint - Takes Up Less Space • Matches Newer ICOM Rigs

NEW! IC-756PROII. HF/6M TRANSCEIVER

"ICOM supplied a 'PROII for a recent DXpedition. It worked so well, that I bought TWO as soon as I returned home. Others on the DXpedition bought them, too. I can't believe the performance of the receiver, particularly on the low bands! The pre-amp REALLY works without distortion. The adjustable filters and twin passband tuning are a dream and so easy to operate. The digital noise reduction is truly amazing. You can't get "lost" with the operation of the controls....it's simple to back out a level. I've operated literally every HF radio made in the last 30 years, contesting and DXing, and the 'PROII is in a class all by itself! We have a six ham family and we all love our new PROII's!!! The "fun" is back into ham radio more than ever now."

Glenn Johnson, W4GJ

Pulling Signals Out Of The Air Just Got Easier.

The New IC-756PROII

This new HF/50 MHz all mode transceiver has the familiar look and feel of the '756PRO - but with the improvements and features that you requested most. Including selectable IF filter shape characteristics - sharp or soft shapes independently selectable for SSB and CW, improved 3rd IMD characteristics - making a dramatic improvement in receiver performance, one touch digital voice recorder playback - selectable even while displaying the bandscope, and much more. The 'PROII uses not only our latest digital technology, but also benefits from our superior experience in analog technology. To find out more about the 'PROII, see your AES dealer today.

- **32 BIT FLOATING POINT DSP & 24 BIT AD/DA CONVERTER.** At the heart of the '756PROII, the DSP is an incredible tool for handling the QRM found on the bands.
- **SELECTABLE DIGITAL IF FILTER SHAPES FOR SSB & CW.** Tailor filter shape & bandwidth to your personal operating preferences or band conditions. Sharp for selectivity & signal fidelity, soft for readability, or somewhere inbetween - it's your choice! Change on the fly & compare the difference!
- **IMPROVED 3RD ORDER INTERCEPT POINT.** The newly designed 4 element system delivers a measurable improvement in the 3rd Order Intercept Point, resulting in less distortion from strong signals.
- **REAL-TIME BANDSCOPE.** The adjustable 5" TFT color display shows band activity with relative signal strengths around a center frequency. A peak hold feature gives a snapshot of band activity while using the Dual Watch & sub-band marker to search for new stations or open frequencies on a crowded band.
- **DIGITAL VOICE RECORDER.** External control allows you to use the recorder playback and memory keyer even while displaying the bandscope. Great for contesting!
- **AGC LOOP MANAGEMENT.** Multiple AGC loops, controlled by the 32 bit DSP, filter out unwanted interfering signals, eliminating pumping of the AGC.
- **AUTOMATIC NOTCH FILTER.** Perfect for SSB operation - eliminate annoying heterodynes and "tune up", without effecting the receive audio.

IC-756PROII. The best just got better.

HF/6M • 100W • All Mode • Enhanced Rx • Dual Watch • 32 Bit IF-DSP • Independently Selectable IF Filter Shapes For SSB & CW • Variable Level Noise Blanker • Auto & Manual Notch Filter • Twin Passband Tuning • Improved 5" TFT Color Display • CW Memory Keyer • VOX • Auto Antenna Tuner • SSB/CW Synchronous Tuning • External Control For Voice Memory & Memory Keyer • Adjustable RIT Clear • 1/4 Tuning Steps In Digital Mode

- **MANUAL NOTCH FILTER.** Perfect for CW or digital operations, the 70db manual notch filter eliminates unwanted signal without effecting the actual passband of your filters.
- **DIGITAL TWIN PASSBAND TUNING.** Great for crowded bands, or contests, eliminates interfering signals by narrowing or by shifting the IF passband.
- **BUILT-IN RTTY DEMODULATOR & DECODER.** External units or PCs are no longer required for RTTY decoding. Twin peak audio filter, using the DSP unit, significantly reduces interfering signals overlapping the tones.
- **TWIN PEAK AUDIO FILTERS.** Peak the signal audio used in the digital modes.
- **MICROPHONE EQUALIZER.** A total of 121 varieties of equalized audio can be set with the built-in microphone audio equalizer, tailored to operating style & microphone characteristics.
- **SSB/CW SYNCHRONOUS TUNING.** You no longer have to worry about changing from SSB to CW, the radio automatically shifts the VFO without losing the CW station you were copying.
- **ADJUSTABLE NOISE BLANKER.** Adjustable in 101 steps, this gives you control of the level of the noise blanker, to eliminate distortion of the desired signal.

Find out more

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ICOM®

KENWOOD

VISUAL ACCESSORY



VC-H1 SSTV Visual Communicator A compact and easy to use portable SSTV unit that is compatible with FM VHF/UHF transceivers along with FM and SSB HF modes. Receive digital images quick (17 seconds download @ 9600 baud). For camping trips, Field Day, or disaster communication. Imagine sending images across town or across the world on VHF/UHF. It also integrates with your PC to store and label all your favorite pictures for future transmission. • 1/4", 270,000-pixel CCD camera • 360-degree rotatable and detachable camera head • 1.8-inch TFT color LCD monitor. Up to 10 picture memory • Built-in microphone and speaker • Connect to a Kenwood handheld, mobile or HF transceiver with an optional cable • Computer connectivity with an optional connection kit • AA alkaline or 110 volt AC adapter operation • Operates all Slow Scan modes • Callsign superimpose • Auto Power Off • Transmits to another radio or PC (with power supply and software) • Accepts camera input **\$399.99**

Available Accessories

E30335208 16-pin DIN plug/cable, E59040708 16-pin DIN plug, KCT245 VCH1-to-PC software and cable, PG4T VCH1-to-Kenwood FM mobile cable, SC46P Protective case

YAESU

*Yaesu prices beyond 3/31/02 were unknown at press date.



SINGLE BAND HTS

VX-150 2M Ultra-Rugged FM HT Designed to perform under the most difficult conditions. Packed with leading edge features. Die-cast aluminum case • High output speaker • Illuminated keypad and OmniGlow™ • 5W with standard battery • Three power output levels • 144-148 MHz tx, 140-174 MHz rx • 209 memories • SmartSearch™ auto memory loading • Keypad with 16 multi-function keys • Two user-definable function keys • Priority monitoring • Dual watch • Alphanumeric recall • Memory bank and preferential memory scanning • VFO search • Auto repeater shift • ARTS™ • Wide and narrow deviation selection • 1750Hz tone calling • Programmable menu • Battery saver and auto power off • MIL-STD 810D/E rating • 4.2" h x 2.3" w x 1.1" d, 11.5 oz **\$129.99**

Available Accessories

ADMS1F Programming software, CN3 BNC-SMA adapter, CT27 Cloning cable, CT44 2-pin speaker mic adapter, CT53 Packet cable, EDC5B DC adapter/filter, EDC6 DC adapter; plug/wire only, FBA25 6 "AA" cell battery case, FNBV57 7.2V 1100mA battery, FNB64 7.2V 700mA battery, LCC150/TT Leather case, LCC150S/TT Leather case/swivel, MH34B4B Speaker mic, MH37A4B Earpiece and mic, NC72B Extra wall charger, VAC400B One-hr rapid charger, VC25 VOX headset



FT-33R 220MHz FM HT An old favorite still enjoying great popularity due to low cost and useful features. • 5W output with standard battery • Transmit/receive range: 220-225MHz • 10 memory channels, 7 store splits • Battery saver • LCD display with S meter • Rugged aluminum alloy case with water resistant seals • Optional CTCSS enc/decode & DTMF pad • 4.8" h x 2.3" w x 1.3" d, 15 oz **\$229.99**

Available Accessories

CLIP1 Belt clip, CSC24S Case, CSC28 Case, FBA17 Battery holder, FNB12S 12V 600mA battery, FNB17 7.2V 600mA battery, FTS12 Encoder/decoder, FT14 TTP unit, MH30C2B Speaker mic, MH34C2B Speaker mic, NC28B Wall charger, NC34B Wall charger, NC65B Wall charger for NC18B/38B, PA6 DC adapter, YH2 VOX headset with mic

MULTI BAND HANDHELDS

FT-50RD/41B Ultra Compact Dual Band VHF/UHF HT High performance, heavy-duty, rugged, state-of-the-art and small enough to put in your pocket. Simple to operate, and has all the features you want. 5W output with standard battery • Power output 5/2.8/ 1/0.1W • Transmit: 144-148MHz and 430-450 MHz • RX: 76-200, 300-540, 590-999MHz (cell blocked), includes AM aircraft receive, FM narrow and FM wide • 3 selectable filters • Digital Code Squelch • CTCSS encode/decode • 112 memory channels plus 2 home channels • High speed scanning • 48 character alphanumeric display • ARTS™ • Dual watch • Digital voice recorder • Auto power off • Time-out timer • Windows™ PC programmable • Rear mount battery • MIL-STD 810D/E rating • 3.9" h x 2.25" w x 1.2" d, 11.5 oz **\$209.99**

Available Accessories

ADMS1E Software, CA14 Two charging sleeves, CA15 Charging stand for NC60B, CLIP10 Spring loaded belt clip, CN3 BNC-SMA adapter, CSCV10 Cordura case, CSC68 Case for unit with FNB41/FBA15, CSC69 Case for unit with FNB40, CT27 Cloning cable/CT27A, CT30 Mic Y adapter, CT53 Packet cable, EDC5B DC adapter/filter, EDC6 DC adapter; plug/wire only, FBA15 4 "AA" battery holder, FBA21 6 "AA" battery holder, FEP10 Earphone, FNBV47 7.2V 1100mA battery with belt clip, FNB41 9.6V 600mA 5W battery, FNB42 9.6V 1100mA 5W battery, LCC10C Leather case with clip for unit with FNB41/V47, LCC10S Leather case with sleeve for unit with FNB41/V47, MH30C2B Speaker mic, MH34B4B Speaker mic, MH37A4B Earpiece and mic, NC50 One-hour dual slot charger, NC60B Wall charger, PA17 Battery cable extender, RH1 Black rubber protector, RH1R Orange rubber protector, VC25 VOX headset, YHA54 Replacement 2m/440 BNC duck

FREE ITEMS included with some radios.
See Price Guide for details.



We accept I.M.P.A.C.® Government Credit Cards



VX-1R Ultra Compact Dual Band HT Provides superb local communications at power levels of 1W or 500mW. Impressive memory and scanning capabilities in addition to wideband receive which includes VHF and UHF TV audio. AM broadcast, FM broadcast, AM aircraft band, and public safety channels. • Receive ranges: 0.5-1.7MHz (BC Band) 76-108MHz (FM) • 108-137 (AIR) 137-170 (VHF HAM) • 170-222MHz (VHF TV) • 222-450MHz • 470-800MHz (UHF TV) • 800-999MHz • Cell blocked • Transmit ranges: 144-148 MHz • 430-450MHz • 500

mW with standard 3.6V lithium-ion battery (1W at 6V DC) • 291 memory channels • SmartSearch™ • CTCSS enc/decode, digital coded squelch • Backlit keypad • ARTS™ • One-touch emergency system • PC programmable • 6-digit alphanumeric memory labels • 3.2" h x 1.9" w x 1" d, 4 oz **\$129.99**

Available Accessories

ADMS1E Windows software, CN3 BNC-SMA adapter, CSC71 Soft case, CT44 2-pin speaker mic adapter, CT53 Packet cable, EDC15 DC adapter, FBA20 Battery holder, FEP10 Earphone, FNB52LI 3.6V 700mA lithium-ion battery, MH34B4B Speaker mic, MH37A4B Earpiece and microphone, NC66B Two-hour charger, VC25 VOX headset



VX-5R Tri-Band HT A miniature FM transceiver with extensive frequency coverage of 2M, 6M, 440MHz (including AM and FM broadcast), HF shortwave up to 16MHz and VHF AM aircraft. Super thin profile and durable lightweight design. • 5W (4.5W 430MHz) with standard lithium-ion battery • 50-54, 144-148 and 430-450MHz tx, .5-15.995, 48-728.990 and 800-998.990 MHz wideband rx (cell blocked) • 220 memories plus home channels • 10 auto-scan weather channels • CTCSS enc/decode, DCS • Backlit keypad • ARTS™ • 8-character, alphanumeric display • Time-out timer • Dual watch • Dot matrix LCD • Smart search spectrum analyzer • Temperature display read-out • Barometric pressure sensor option • Automatic power-off • Windows PC programmable • 16-digit 9-memory DTMF autodialer • Busy channel lock out • Innovative multi-section antenna • Aluminum diecast case • MIL-STD 810 rating • 3.4" h x 2.3" w x 1.1" d, 8.9 oz **\$259.99**

VX-5RS Same radio as the above VX-5R with a silver case **\$259.99**

Available Accessories

ADMS1E Windows software, CD15 Charger stand for NC72B, CN3 BNC-SMA adapter, CSC73 Soft case, CT27 Cloning cable, CT44 2-pin speaker mic adapter, CT53 Packet cable, EDC5B DC adapter/filter, EDC6 DC adapter; plug/wire only, FBA23 2 "AA" cell battery case, FNB58LI 7.2V 1100mA lithium-ion battery, MH34B4B Speaker mic, MH37A4B Earpiece and microphone, NC72B Extra wall charger, SU1 Altitude/barometric pressure sensor, VC25 VOX headset

New IC-V8000



75W
OUTPUT POWER!



Power when you need it!

75 Watts of output power! With ICOM's new IC-V8000 you can reach that mountain top, punch through that urban canyon - talk and be heard further! The combination of the 'V8000's one piece die-cast aluminum chassis and 75W of transmit power gives you the most powerful 2M mobile in its class. But that's not all. We've added features like: Weather Alert and Weather Channel Scan (first time in an amateur radio); 207 Alphanumeric Memory Channels; Remote Control Mic; ICOM's exclusive DMS Scan System (see below); and much more. Pick up a 'V8000 and let your signal be heard! Coming soon to your AES dealer.

IC-V8000 Features

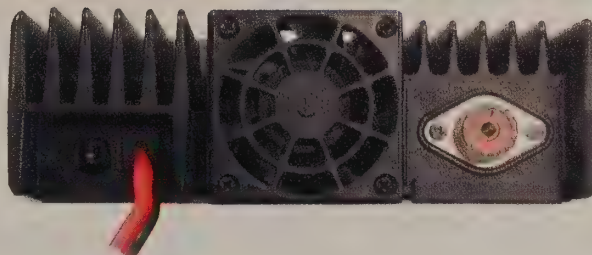
- **75W OF OUTPUT POWER.** The most powerful 2M mobile in its class. Your signal will get through!
- **WEATHER ALERT SCAN.** A first for amateur radio! The weather alert function keeps you informed of any weather emergencies, so you can respond fast.
- **CTCSS AND DTCS OPERATION STANDARD.** Get onto the repeater fast! 104x2 DTCS and 50 CTCSS codes gain you quick repeater access and eliminate unrelated chatter. With pocket beep and tone scan.
- **207 MEMORY CHANNELS.** A total of 207 alphanumeric memory channels including 1 call channel and 6 scan edges. Each memory channel stores 6 character name, tone frequency, skip info, and more.
- **HM-133V REMOTE CONTROL MICROPHONE.** Control everything from the palm of your hand! ICOM's exclusive "Hot Keys" lets you program the features that you use the most. Bigger backlit keys allow you to operate in low light conditions.
- **DYNAMIC MEMORY SCAN (DMS).** ICOM's exclusive DMS system gives you flexibility to customize and manage the V8000's memory banks like no other 2M mobile ever offered.
- **DTMF ENCODE AND OPTIONAL PAGER FUNCTION.** 10 DTMF memory channels with up to 24 digit DTMF codes can be used to control other equipment. Optional UT-108 DTMF decoder provides code squelch and pager functions.
- **VERSATILE CLONING.** Clone from transceiver to transceiver or PC to transceiver.
- **FRONT FIRING SPEAKER.** Front mounted speaker provides crisp, clear audio when on the move.

IC-V8000. Power to punch through.

2M • 75W • Weather Alert • CTCSS/DTCS • FM Narrow Mode • 207 Alphanumeric Memory Channels • Remote Control Mic • Dynamic Memory Scan • DTMF Encode • 10dB Squelch Attenuator • Priority Watch • Versatile Cloning • Front Firing Speaker • Rugged Construction



SELECTABLE
GREEN
OR AMBER
DISPLAY



RUGGED CONSTRUCTION. The one piece die-cast aluminum chassis ensures reliable operation against shock and vibrations. A large cooling fan on the back and large cooling fins keeps the internal components cool and allows you to operate in even the harshest environments.

Setting a new standard

www.icomamerica.com

ICOM[®]

SINGLE RING HANDHELS

[illegible]

(9) With external 13.8V
(10) 80 without Alphanumerics, 40 with Alphanumerics
(11) 12W on 1.2 GHz
(12) Dual operation between Voice & Data
(13) 1W with wall cube or cigarette adapter
(14) 1W with wall cube or cigarette adapter
(15) 6-character alphanumeric through software
All radios are cell blocked

All radios are cell blocked

*Only alkaline case included
) TNC ant. jack commonly found on cell & commercial equip.

*) With optional EJ-14U

c) With optional FI-15U

() Standard CTCS plus DCS

*) Guaranteed 440-450MHz only

ii) Folding out attached 2m ant

1) Following airt. attached. ZN

4) Expanding to 100-174

FREE ITEMS included with some radios.
See Price Guide for details.

MULTI-RAND HANDHELDS

Manufacturer	ALINCO	ALINCO	ALINCO	ICOM	ICOM	ICOM	ICOM	KENWOOD	KENWOOD	KENWOOD	YAESU	YAESU	YAESU
Model	DJ-596T	DJ-C5T	DJ-V5TH	IC-Q7ABC	IC-17H	IC-181A	TH-D7A(G)	TH-F6A	TH-671A	FT-50RD/41B	VX-1R	VX-5R & VX-5RS	
Tx Range (MHz)	144-148 420-450	144-148 420-450	144-148 438-450 440-450	144-148 440-450	144-148 440-450	50-54, 144-148 440-450	144-148 430-450	144-148 222-225 430-450	144-148 430-450	144-148 430-450	144-148 430-450	50-54 144-148 430-450	
Rx Range (MHz)	136-174 400-512	118-174 420-450	76-999	30-1300	118-174 400-470	50-54, 74-174 400-470 1240-1300	118-174 400-480	0.1-1300	118-174 400-470	76-200 300-540 590-999	5-1.7 76-999	0-5-16 48-729 800-999	
Single/Multi Rx	Single	Single	Single	Single	Single	Single	Single ^(1a)	Dual	Single	Single	Single	Single	
Aircraft Rx	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Power Output	5W	300mW	5W	350mW	6W	5W ^(1b)	5W	5W	5W	5W	500mW ^(1a)	5W	
Memories	100	50	200	200	70	124	200	435	200	112	291	220	
CTCSS	Enc/Dec/DCS	Enc/Dec	Enc/Dec	Enc/Dec	Enc/Dec	Enc/Dec	Enc/Dec	Enc/Dec/DCS	Enc/Dec	Enc/Dec/DCS	Enc/Dec/DCS	Enc/Dec/DCS	
TTP	Yes	No	Yes	No	Yes	Yes ^(1a)	Yes	Yes	Yes	Yes	No	Yes	
Alphanumeric	Yes	No	Yes	No	No	Yes ^(1a)	Yes	Yes	Yes	Yes	Yes	Yes	
PC Programmable	No	No	No	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	
Battery Type	Ni-Cad	Li-ion	Ni-Cad	Ni-Cad	Ni-Cad	Ni-MH	Ni-Cad	Li-ion	Ni-Cad	Ni-Cad	Li-ion	Li-ion	
Ant.Connector	BNC	Fixed	SMA	SMA	BNC	SMA	SMA	SMA	SMA	SMA	SMA	SMA	
Size (h/w/d, in.)	4.9/2.2/1.6	3.7/2.2/0.4	3.8/2.3/1.3	3.8/2.3/1.1	4.8/2.3/1.1	4.3/2.3/1.2	4.7/2.1/1.7	3.4/2.3/1.2	4.4/2.1/1.3	3.9/2.3/1.2	3.2/1.9/1.0	4.1/2.4/1.3	
Weight (oz.)	13.2	3.2	12	6.4	14.3	9.9	13.4	8.8	11.6	11.5	4	10	

Coming to AES - Spring 2002!

New IC-2720H 2m/440MHz Dual Band Mobile



Under Construction

PROJECT NAME:

IC-2720H

PROJECTED FREQUENCY OPS.:

2m/440MHz

PROJECTED RELEASE DATE:

LATE SPRING 2002*

PRELIMINARY SPECIFICATIONS:

VV/UU/VU - 50W VHF/35W UHF
CTCSS/DTCS ENCODE/DECODE W/TONE SCAN
WIDE BAND RX INC. WEATHER & AIR BANDS
DYNAMIC MEMORY SCAN
INDEPENDENT CONTROLS FOR EACH BAND
REMOTE HEAD W/MOUNTING HARDWARE INCLUDED
HM-133 REMOTE CONTROL MIC
212 MEMORY CHANNELS
SELECTABLE SQUELCH ATTENUATOR

*****OTHER FEATURES CLASSIFIED*****



PROJECT NOTES:

HAS SIMULTANEOUS RECEIVE & INDEPENDENT CONTROLS FOR TUNING, SQUELCH & VOLUME. REMOTE HEAD W/MOUNTING HARDWARE INCLUDES 11' OF SEPARATION CABLE - CAN BE MOUNTED ANYWHERE. HM-133 REMOTE CONTROL MIC LETS USER CONTROL ALL FUNCTIONS FROM THE PALM OF HAND.

DESIGNED BY:

ICOM®



HF RADIOS

DX-70TH Compact HF Covers 160-6M • 150kHz-30MHz and 50-54MHz receive • SSB, CW, AM, FM • 100W (AM 40W) • Detachable face • 100 multi-function memories • Two VFOs • Easy split operation mode • Multi-function control • Narrow filter • Noise blanker • Speech processor • CTCSS for 10M and 6M repeaters • Full, semi or auto break-in CW • All mode squelch • General coverage receiver • Quick offset • Two scan modes • Separate antenna terminals for HF and 6M • RIT • TXIT • Selectable AGC • RF gain control • Dial lock • Automatic antenna tuner interface • MARS/CAP capability • 2.25" h x 7" w x 9" d, 8.3 lbs..... **\$749.99**

Available Accessories

DM330MVT 30 amp switching power supply with meter, DM340MVT 30 amp power supply with meters, EBC8 Front control head bracket, EBC9 Extra mobile bracket, EDS4 5' remote mount accessory cable kit, EDS5 5' mic extension cable, EDS6 15' remote cable, EDX2 160-10M auto wire tuner, EMS14 Desk mic, PC25 DC cable



DX-77T Covers 160-10M • 500kHz-30MHz general coverage receive • SSB/CW/AM/FM modes • 100W (AM 40W) • 100 multi-function memories • Two VFOs • Computer control via optional ERW-4 cable and software • Direct digital synthesis: eliminates the need for SSB narrow filter • Easy split operation mode • Multi-function control • CW narrow filters • Noise blanker • 6-50WPM electric keyer • Full, semi or auto break-in CW • All mode squelch • Quick offset • Two scan modes • RIT • High/low power setting control • Selectable AGC • RF gain control (RX) • Dial lock • Auto antenna tuner interface • Industry standard power input plug • MARS/ CAP capability • Requires 13.8V DC @ 20A • 3.6" h x 9.5" w x 9" d, 8.3 lbs..... **\$699.99**

Available Accessories

DM330MVT 30 amp switching power supply with meter, DM340MVT 30 amp power supply with meters, EDS5 5' mic extension cable, EDX2 160-10M auto wire tuner, EMS14 Desk top microphone, ERW4 PC cable, PC25 DC cable



HF RADIOS

IC-706 MK II-G Ultra Compact HF/VHF/UHF

All Mode Transceiver Carries on the 706 series tradition of base station performance and features in a mobile rig-sized package. Frequency coverage is expanded to include the 70 cm band and power is increased for the 2 meter band. Plus, enhancements and added features and functions. • Covers 160-10M + 6M, 2M and 70cm • 0.03-200MHz broadband receive with wide AM and wide FM broadcast reception • Power output: 100W (40W AM) from 160-6M, 50W (40W AM) on 2M, 20W (8W AM) on 70cm • All mode including RTTY and PSK31 • AF speech compressor • 107 alphanumeric memories • Detachable control panel • 2 optional filter slots • AF-DSP • Tone encode • Tone squelch • Tone scan • Access to RIT/second VFO • Cross band split • Noise blanker • IF shift • Preamp/attenuator • CW keyer • CW pitch control/reverse • Full break-in (QSK) • Speech processor • VOX • Simple band scope function • Scroll menu system • SWR graphic sweep display • One-button duplex and auto repeater functions • Backlit keys • Large built-in speaker • 2 antenna connectors • Quiet cooling fan • Requires 13.8V DC @ 20A • 6.6" w x 2.3" h x 7.9" d, 5.5 lbs..... **\$899.99**

Available Accessories

BET706TUNECONT Better RF IC706 tune control, AH2B Whip with mount, AH2BWHIPONLY Extra whip only for AH2B, AH4 80-6M 120W auto wire antenna tuner, AT180 HF+6M auto coax antenna tuner, CR282 Stability crystal, CT17 Level converter, FL100 500Hz 9MHz IF CW filter, FL101 250Hz 9MHz IF CW filter, FL103 2.8kHz 9MHz IF SSB filter, FL223 1.9kHz 9MHz IF SSB filter, FL232 350Hz 9MHz IF CW/RTTY filter, HM118TN TTP microphone, MB62 Mounting bracket for main unit, MB63 Mounting bracket for control panel, MB65 Mounting base platform, MB72 Carrying handle, OPC025D DC cord, OPC581 11.5' separation cable, OPC587 16' separation cable, OPC589 8-pin mic jack adapter cable, OPC598 23' extension cable for AT180, OPC599 7+8-pin-13-pin adapter, OPC742 13-pin cable, PS125 25A switching power supply, PS85 Switching power supply, RMK706 Remote mounting kit, SM20 Stand mic for base station, SM6 Electret desk mic, SP10 Slim-line external speaker, SP7 Small external spker, UT102 Voice synthesizer



IC-718 HF All Band Transceiver Advanced features and performance, yet easy to use. Its simplified operation is perfect for beginners or great as a back-up rig. • Covers 160-10M • Continuous receive coverage 0.03-30MHz • 100W output (40W AM) • Built-in USB, LSB, CW, RTTY (FSK) and AM • 101 memories • Variety of scanning functions • Front mounted loudspeaker • IF shift • Microphone compressor • RF gain control • Noise blanker • RF attenuator and preamp • Auto notch • Ample CW features include an electronic keyer • VOX • Flexible filter selection • Digital S/Rf meter • High frequency stability • Optional voice synthesizer and DSP capability • Hand mic included • Requires 13.8VDC @ 20A • 9.4" w x 3.75" h x 9.4" d, 8.5 lb.... **\$599.99**

Available Accessories

AH2B Whip with mount, AH2BWHIPONLY Extra whip only for AH2B, AH4 80-6M 120W auto wire antenna tuner, AT180 HF+6M auto coax antenna tuner, CR338 High stability crystal, CT17 Level converter, FL222 1.9kHz 455kHz IF SSB filter, FL257 3.3kHz 455kHz IF SSB filter, FL52A 500Hz 455 kHz IF CW filter, FL53A 250Hz 455kHz IF CW filter, FL96 2.8 kHz 455kHz IF SSB filter, MB23 Carrying handle, MB5 Mobile mount, OPC025D DC cable, OPC598 23' extension cable for AT180, PS125 25A switching power supply, PS85 Switching power supply, SM20 Stand mic for base station, SM6 Electret desk mic, SP20 Speaker with audio filter, SP21 Speaker, SP7 Small external spker, UT102 Voice synthesizer, UT106 DSP

FREE ITEMS included with some radios.
See Price Guide for details.



IC-775DSP HF All Band Transceiver • Covers 160-10M • 100kHz-29.995MHz continuous receive • All mode, including PSK-31 • Data mode • Power MOS FET PA section • 200W output (50W AM); continuous duty cycle • Preamp and attenuator • Channelized quick split function • RF speech compressor • Triple band stacking register • Transmit and receive DSP • Digital noise reduction and PSN • Noise blanker with adjustable level and width • Audio peak filter • Dual watch • Dual tuning knobs • Twin pass band tuning • Accommodates up to 11 filters, 6 filters installed, accepts up to 5 more • Built-in memory keyer • Electronic keyer function • CW pitch control • CW reverse • QSK • Double key jack • Large, easy-to-read amber display • PC programmable • Built-in heavy-duty power supply • Auto antenna tuner and selector • 16.7" w x 5.9" h x 15.4" d, 36.8 lb..... **\$3499.99**

Available Accessories

CR282 Stability crystal, CT17 Level converter, FL101 250Hz 9MHz IF CW filter, FL102 6kHz 9MHz IF AM filter, FL222 1.9kHz 455MHz IF SSB filter, FL223 1.9kHz 9MHz IF SSB filter, FL257 3.3kHz 455kHz IF SSB filter, FL53A 250Hz 455kHz IF CW filter, HM36 Scanning hand mic, MB19 Rack mounting handles, SM20 Stand mic for base station, SM6 Electret desk mic, SP20 Speaker with audio filter, SP21 Speaker, UT66 Voice synthesizer

WE WANT YOUR TRADE-IN!

We're always looking for Clean, Late model SSB or FM gear. Look over the gear in this catalog. Then call Toll Free and tell the salesperson what item you want and what gear you have to trade.



IC-756PROII HF/50MHz All Mode Transceiver The same rig as the 756PRO with the addition of

- Improved third intercept point, sensitivity and RX audio fidelity
- Selectable digital filter shape CW and SSB
- Improvement of noise reduction and low level volume controls
- New noise blanker level control
- Lower floor noise level in the band scope
- DVR operation with band scope enabled
- External control of keyer
- Higher contrast in labeling of control knobs and buttons
- Higher quality display – background colors and schemes
- Digital and voice mode filter settings are independent
- Disable compression in digital modes
- 1/4 tuning steps in digital modes
- Fast RIT Clear
- SSB/CW synchronous tuning

\$2969.99

IC-756PRO HF/50MHz All Mode Transceiver Newly designed, 32 bit floating point DSP digital IF filter with 41 selectable bandwidths, microphone equalizer, manual notch function, TFT 5" color LCD, digital twin passband tuning (PBT), all mode, including PSK31, and much more.

- Covers HF and 50MHz amateur bands
- Continuous receive 0.03–60MHz • 100W (AM 75W)
- 101 memory channels
- AGC loop management
- Edge cutting IF filter
- RF speech compressor
- Twin peak audio filter
- DPSN
- RTTY demodulator
- Digital noise reduction
- CW wave form
- Spectrum scope
- Digital voice memories
- Highly stable transmitter
- Digital twin PBT
- High performance memory keyer
- Analog and digital meters
- Set mode condition list
- Complete CW features
- Superior receive IMD
- Dual watch
- Memory pad
- Triple band stacking register
- Quick split function
- Built-in antenna tuner
- RIT and ΔTX control for main and sub-band
- Dual antenna system
- VOX
- 2-level preamp and 3-level attenuator
- Auto TS function
- CI-V interface capability
- Noise blanker
- Scanning functions
- CTCSS tone encoder
- 13.3" w 4.3" h x 11.2" d, 21 lbs

Closeout \$1899.99

Available Accessories

AH2B Whip with mount, AH2BWHIPONLY Extra whip only for AH2B, AH4 80–6M 120W auto wire antenna tuner, CT17 Level converter, HM36 Scanning hand mic, OPC025D DC cable, PS125 25A switching power supply, SM20 Stand microphone for base station, SM6 Electret desk mic, SP20 Spkr with audio filter, SP21 Spkr, UT102 Voice synthesizer



IC-746PRO HF/VHF All Mode Transceiver The same great features as the 746 with the addition of

- 32-bit floating point DSP and 24-bit AD/DA converter – providing ultra dynamic range and good third-order intercept point on receive
- AGC loop management
- IF filter width and shape variable – no optional filters are required or needed
- All mode signal modulation and demodulation
- RTTY demodulator and decoder
- Digital twin PBT capability – eliminating interfering signals
- High visibility button labels

\$1899.99

IC-746 HF/VHF All Mode Transceiver With solar cycle 23 geared up, all hams will be able to take advantage of better HF propagation conditions, night and day!

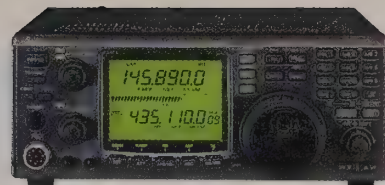
- Covers 160–10M + 6M + 2M
- Continuous receive 0.03–60MHz and 108–174MHz
- 100W output (40W AM) on all bands – 100% duty cycle
- 100 memories
- 10 "memo pad" memories
- Modes include RTTY and PSK-31
- Built-in auto antenna tuner for HF/6M
- 2 antenna connectors for HF/6M, one for 2M
- IF-DSP noise reduction, auto notch and selectable audio peak filters
- Noise blanker
- Dot matrix LCD
- Spectrum scope
- Twin passband tuning
- Triple band stacking register
- 2-step preamp
- 3 optional filter slots
- RF speech compressor
- Tone squelch
- Tone scan
- VOX
- SmartTune™ variable speed tuning
- Auto repeater duplex setting
- Quick split
- CW pitch control
- QSK
- Memory keyer with 4 memories
- QSO serial number generator
- Transmit audio monitor
- Requires 13.8V DC @ 20A
- Hand mic with up/down frequency control
- 11.3" w x 4.7" h x 12.5" d, 19.6 lbs

Closeout \$1299.99

Available Accessories

AH2B Whip with mount, AH2BWHIPONLY Extra whip only for AH2B, AH4 80–6M 120W auto wire antenna tuner, CR338 High stability crystal unit (for PRO version only), CT17 Level converter, OPC025D DC cable, PS125 25A switching power supply, SM20 Stand mic for base station, SM6 Electret desk mic, SP20 Speaker with audio filter, SP21 Spkr, UT102 Voice synthesizer

FOR IC-746 ONLY: CR282 Stability crystal, FL100 500Hz 9MHz IF CW filter, FL101 250Hz 9MHz IF CW filter, FL103 2.8kHz 9MHz IF SSB filter, FL222 1.9kHz 455MHz IF SSB filter, FL223 1.9kHz 9MHz IF SSB filter, FL232 350Hz 9MHz IF CW/RTTY filter, FL257 3.3kHz 455kHz IF SSB filter, FL52A 500Hz 455kHz IF CW filter, FL53A 250Hz 455kHz IF CW filter, FL96 2.8kHz 455 kHz IF SSB filter, PS85 Switching power supply, RS746 Windows software



DUAL BAND BASE STATION

IC-910H VHF/UHF All Mode Transceiver • The successor to the IC-821H, but with the optional 1200MHz installed, it becomes an all mode (SSB, CW and FM) triband transceiver.

- Coverage: 144–148, 430–450 and 1240–1300MHz (option)
- Memory channels: 99 regular, 1 call, 6 scan edges for each band, 10 satellite
- 5–100W (2m), 5–75W (440MHz), optional 1–10W (1200MHz)
- Large, 3.5" multi-function LCD, 10-key direct entry keypad for operating frequency or memory channels
- Satellite mode operation support
- 9600bps packet
- Simultaneously works 2 bands in receive and full duplex
- CW full support
- Versatile scanning functions (programmed, memory, mode select memory and tone scan)
- Memory pad
- 50 tone CTCSS encoder
- On-touch repeater function
- Auto repeater function
- Speech compressor
- IF shift
- VOX
- RIT
- PC compatible through optional level converter
- Requires 13.8V DC @ 23A
- 9.5" w x 3.6" h x 9.4" d, 10 lbs

\$1199.99

Available Accessories

AG1200 1.2GHz mast mount preamp, AG25 2M mast mount preamp, AG35 430 mast mount preamp, CR293 High stability crystal unit, CT17 Level converter, FL132 500Hz main receiver CW filter, FL133 500Hz sub-band receiver CW filter, MB23 Carrying handle, MB5 Mobile mount, PS125 25A switching power supply, SM20 Stand mic for base stations, SP10 Slim-line external speaker, SP7 Small external speaker, UT102 Voice synthesizer, UT106 DSP unit, UX910 10W 1.2GHz module

FREE ITEMS included with some radios.
See Price Guide for details.

KENWOOD



HF RADIOS

TS-50S HF Transceiver • Covers 160–10M

- General coverage receive 500kHz–30MHz
- 100W output SSB/CW and FM (AM 25W)
- 100 memory channels
- Multiple scan functions
- Powerful menu system
- Dual VFOs
- Comprehensive interference reduction
- Full and semi break-in
- CW reverse mode
- All-mode squelch
- IF shift
- Switchable AGC
- 20dB attenuator
- Noise blanker
- Multi-function hand mic
- 7" w x 2.3" h x 9.1" d, 6.4 lbs

\$689.99

Available Accessories

AT50 HF external auto tuner, KPS15 23A switching power supply, MC47 8-pin hand mic, MC60A 8-pin amp desk mic, MC80 8-pin electret desk mic, PG2Y DC cable, PG2Z 6.5' heavy-duty DC cable, PG4M 18' extension cable for the AT50, PS53 Heavy-duty power supply, SO2 TCXO unit, SP23 Speaker, TC50 Travel case, YK107C 500Hz CW filter

AMATEUR ELECTRONIC SUPPLY
5710 W. GOOD HOPE ROAD.
MILWAUKEE, WISCONSIN 53223
(414) 358-0333

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www.sgcworld.com

No Compromise Communications

The SG-2020 - Now with ADSP Adaptive Digital Signal Processing Eliminates noise for unsurpassed signal quality

For the first time ever, the popular SG-2020 radiotelephone is available with optional digital signal processing. Receive clearer AM, FM, SSB, CW, and data. Designed as a small, low power, low cost USB/LSB/CW/HF-SSB travel companion. Take it and use it anywhere - fixed, mobile, portable, aviation or boating. Operating from 12V DC, it has the lowest current consumption on the market.

Transmit power is adjustable from 0-20W PEP output & covers 1.8 to 29.7 MHz. An RF speech processor utilizing VOGAD baseband processing & RF clipping provides plenty of DX "talk-power". A back lit LCD display shows a 100Hz freq. resolution (10Hz overall res.). There are 20 Simplex or Semi-Duplex memories to store favorite operating frequencies. Other functions and features include: SPLIT, RIT, XIT and tunable 100 to 2700Hz A.F. Bandpass. Also, a noise blanker, a fully adjustable (5 to 60 WPM) IAMBIC "B" mode keyer and convenient SWR metering and battery voltmeter. Dynamic hand microphone is included. "Smallest" portable rig, only 7"L x 5.9"W x 2.75"H, 4.4 lbs.

SG-2020 with ADSP - SGC Cat. #05-02 - \$795.99

SG-2020 without ADSP - SGC Cat. # 05-01 - \$675.99



- Power Output: 150 watts PEP
- Transmitter frequency range: 1.8 to 30 MHz
- Receiver frequency range: 500kHz to 30 MHz
- Modes: A3A, ASH, A3J, CW, AM
- Channels: 100 channels field programmable, 644 channels factory programmed ITU and data.
- Scan Channels: Up to 100 programmable in 10 groups
- Power Requirement: 13.6 VDC; 0.8A RX - 16A TX
- Size: 15"L x 10"W x 4 3/4"H • Weight: 12 lbs

SG-2000 - HF Single Sideband Radio Telephone

Make contact anywhere with the power-packed SG-2000. Engineered for simple and efficient operation, the SG-2000 features an alarm generator, upper/lower sideband, true amplitude modulated (AM) receiver and channel scan as standard features. Talk anywhere in the world on the HF Ham bands, receive and send time sensitive documents, decode UPI transmissions, get latest weather reports or listen to shortwave broadcasts from around the world. Scan all ITU channels and up to 100 memory channels in adjustable scan speeds and rates. An extra large wide angle display with adjustable backlighting provides easy viewing day or night. The SG-2000 can be fully computer controlled by any standard RS-232 protocol connector for RTTY, ARQ (SITOR), FEC, Packet and telegraphy modes. Fast RX/TX switching time ensures easy and secure data transmissions. The compact front panel of the SG-2000 can also act as the remote head terminal, and up to 8 full function remote heads can be utilized.

SG-2000 - SGC Cat. #04-01 - \$1599.99

SG-2000 Powertalk with ADSP - SGC Cat. #04-10 - \$1849.99

The SG-500 SmartPowerCube

Tremendous power - nearly as much as a 1000W amplifier, but requiring less than one cubic foot of space, the SG-500 is an intelligent, microprocessor-controlled high power linear amplifier. Its electronic brain constantly monitors your HF-SSB's activities, power needs, and antenna condition, and instantaneously selects the right broadband filter. Designed to perform reliably and essentially unattended, in the most demanding conditions.

- Covers: 1.8 to 24 MHz (Overseas model - up to 30MHz) • Power Output: SSB: 500W PEP; CW: 500W for 10 minutes, no fan; 500W unlimited with fan; AM: 250W carrier maximum • Automatic bandswitching • Protection: Input overdrive, over current, over temperature • Size: 12 1/4"L x 11 1/4"W x 6"H

SG-500 - SGC Cat. #52-96 - \$1249.99





Smart technology. Smart design. Smartuners.

SG-237 Smartuner 100W Antenna Coupler

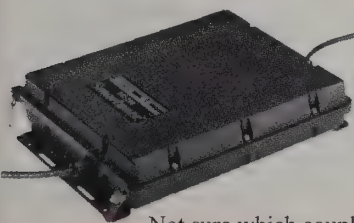
The SG-237 Smartuner series is perfect for marine, aviation, commercial and amateur applications and any application type. The SG-237 is designed with high density surface mount components on a 4 layer PCB, providing high efficiency, reliability and performance. Rugged waterproof construction allows tough operation in any environment. • Cat. #54-18 standard version \$359.99 • Cat. #54-20 Porta. Designed for quick mobile or base set up. Special Order • Cat. #54-19 PCB



only - For retrofit or special projects
\$249.99
1.8-60 MHz • Power Input Range 3-100W PEP • Weight 2 lbs. • 9"L x 7"W x 1.85"H

SG-230 Smartuner 200W Antenna Coupler

The SG-230 precisely tunes any length antenna - 8 to 80 ft. in the HF band. The Smartuner automatically evaluates and switches 64 input & 32 output capacitance combinations, plus 256 inductance combos in a "pi" network (over a half million possible combinations). The amazing result - it automatically selects from over a half-million different ways to ensure a perfect match for your transceiver. It also remembers the chosen frequency and

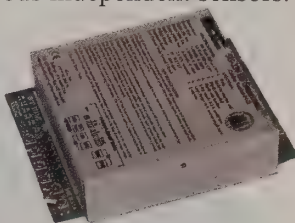


tuning values in less than 10 ms, each time you transmit.
1.8-30 MHz • Power Input Range 3-200W PEP • Weight 8 lbs. • 16"L x 12"W x 3"H • SGC Cat. #54-14 • \$489.99

New This Year - The SG-239 Tiny High-Performance Coupler

Performance features of the SG-239 are far ahead of its low price tag. The unit will work with silent receiver tuning or within the range of 1.5 to 200 watts with a high power transceiver. It has fast, accurate tuning via numerous independent sensors.

1.8-30MHz • 1.5-200W PEP • Weight 2 lbs. • 7.5"L x 6"W x 1.85"H • SGC Cat. #54-22 • \$249.99



SG-231 Smartuner 100W Antenna Coupler

Complete frequency agility with no operator intervention • Compact design, fits the most restrictive installations • Waterproof case allows mounting at antenna feed point for highest efficiency. • SWR always 1:1.5 or better. Tuning solutions are stored in a non-volatile memory for



fast (10ms) automatic recall. Operates with any HP or VHP transceiver, 3 to 100W, and requires only 12VDC and RP connections.

1-60 MHz • Power Input Range 3 to 100W PEP • Weight 3 lbs. • 11.5"L x 9.5"W x 1.7"H • SGC Cat. #54-17 • \$529.99

SG-235 Smartuner 500W Antenna Coupler

The most powerful coupler on the market - The SG-235. The SG-235 automatically tunes any length antenna from just 23 ft. long without preliminary tuning or adjustments. The chosen frequency and

tuning values are remembered allowing reselection of those values in less than 10 milliseconds, each time you select that frequency. Flexibility is a key feature with its attractive options, including 24V DC.
1.8 to 30 MHz range • Power Input Range 3-500W PEP • Tunes from 23 ft, antenna at full power • Waterproof • Weight 8 lbs. • 16"L x 12"W x 3"H • SGC Cat. #54-15 • \$1169.99



Not sure which coupler is right for you? Go to www.sgeworld.com/compare for a full Smartuner comparison chart.

Q.M.S. - Quick Mount System

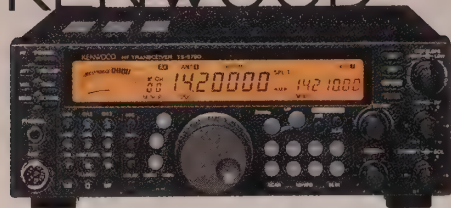
Complete mobile kit - works with any vehicle

Add a QMS to your HF SSB mobile system - an SGC Smartuner along with an efficient whip antenna. The QMS can be installed on any vehicle without drilling any holes or damaging the car body. Installation can be permanent or temporary and just takes 15 minutes. Mount the QMS on the vehicle side, trunk, or roof.



All kits include strapping antennas, four suction cups and mounting hardware.

- **SGC #55-47:** QMS-2: Includes SG-230 coupler, SG-303 9 ft. antenna - **\$895.99**
- **SGC #55-48:** QMS-3: Includes SG-235 coupler, SG-303 9 ft. antenna - **\$2169.99**
- **SGC #55-49:** QMS-7: Includes SG-231 coupler, SG-307 7 ft. antenna - **\$1249.99**
- **SGC #55-50:** QMS-37: Includes SG-237 coupler, (Optional antenna available) - **\$549.99**



TS-570D(G) HF Transceiver • Covers 160–10M • General coverage receive 500kHz–30MHz • Variable output: 5–100W SSB/CW/FM and FSK (AM 25W) • 100 memories with extensive functions • Large amber-colored backlit LCD display • 10-key direct entry • 46 EZ-to-use menu functions • Multiple scanning functions • 16-bit AF-stage DSP VOX • XIT/RIT • IF shift • Noise blanker • All mode squelch • TX audio shaping • Built-in electronic keyer • Full and semi break-in CW • CW message memory • CW auto tune • 38 tone CTCSS encoder and 1750Hz tone • TX audio shaping • Packet and FSK • PC control option • Two antenna ports and packet port • Built-in automatic antenna tuner • Requires 13.8V DC @ 20.5A • 10.6" w x 3.7" h x 10.6" d, 15 lbs..... **\$889.99**

TS-570S(G) HF+6M Transceiver Features are the same as the TS-570D(G) (above) but covers 160–10M plus 6M. General coverage receiver range includes 50–54MHz **\$1059.99**

Available Accessories

DRU3A Digital recording unit, KPS15 23A switching power supply, MB430 Mobile mounting bracket, MC43S 8-pin hand mic, MC60A 8-pin amp desk mic, MC80 8-pin electret desk mic, MC90 2-head DSP desk mic, PG2Y 13' DC cable, PG2Z 6.5' heavy-duty DC cable, PS53 Heavy-duty power supply, SO2 TCXO unit, SP23 Speaker, VS3 Voice synthesizer, YK88CN1 270Hz CW filter, YK88C1 500Hz CW filter, YK88SN1 1.8kHz SSB filter



TS-870S All Mode HF Transceiver • Covers 160–10M • General coverage receive 100kHz–30 MHz • 100W output SSB/CW/FM/FSK (25W AM) • 100 memory channels • Multiple scanning modes • Menu function • Variable AGC • IF digital filter (DSP) • DSP detection • Dual mode noise reduction • Automatic notch filter • Voice equalizer • Speech processor • Transmit equalizer VOX • QSK digital IF filter • DSP noise reduction • IF stage auto-notch beat cancel function • Variable AGC circuit • Built-in electronic keyer • CW pitch control • CW reverse • Radio control software program • Auto antenna tuner on transmit and receive • Built-in antenna tuner dual antenna terminals • External receiver antenna output jack • EZ menu system CTCSS encoder • High quality digital recording option • RS-232C port • Requires 13.8V DC @ 20.5A • 13" w x 4.75" h x 13" d, 25 lbs..... **\$2299.99**

Available Accessories

DRU3A Digital recording unit, KPS15 23A switching power supply, MC60A 8-pin amp desk mic, MC80 8-pin electret desk mic, MC90 2-head DSP desk mic, PG2Y 13' DC cable, PG2Z 6.5' heavy-duty DC cable, PS52 Heavy-duty power supply, SO2 TCXO, SP31 External spkr, VS2 Voice synthesizer



TS-2000 HF/VHF/UHF All Mode Transceiver Offers 3 platforms: traditional transceiver with full function front panel, high-tech looking "silver box" version (TS-B2000), or computer controlled with software • 100W output on HF, 6M and 2M; 50W on 70cm; 10W on 1.2GHz (optional) • High performance true IF/stage DSP on main band, AF stage DSP on sub-band • Wide band receive • Digital filtering • Dual receive • Satellite ready, with transverter frequency display • Cross band repeat • Built-in auto tuner HF through 6M • Built-in TNC • Built-in RS-232 for computer control • Built-in TCXO (.5PPM) • CTCSS/DCS enc/dec • Electronic memory keyer • Backlit front key panel • 5+1 antenna ports – 2 for HF and 6M, 1 each for 2M, 70cm, 1.2GHz and HF receive **\$1759.99**

TS-B2000 HF/VHF/UHF All Mode Transceiver Same as the TS-2000 with high-tech "silver box" look. Includes PC control software **\$1799.99**

TS-2000X HF/VHF/UHF All Mode PC Controlled Transceiver TS-2000 w/1.2GHz **\$2399.99**

Available Accessories

ARCP2000 PC/radio control software, DRU3A Digital recording unit, KPS15 23A switching power supply, MB430 Mobile mounting bracket, MC43S 8-pin hand mic, MCS2DM Lit TTP mic, MC60A 8-pin amp desk mic, MC80 8-pin electret desk mic, MC90 2-head DSP desk mic, PG2Y 13' DC cable, PG2Z DC cable, PS53 Heavy-duty power supply, RC2000 Remote face plate mobile kit, SP23 Speaker, VS3 Voice synthesizer

MFJ ENTERPRISES, INC.



LOW POWER SINGLE BAND SSB TRANSCEIVERS

No microprocessor – turn on and tune in. • 20W PEP (Less on VHF models) – plus Constant Current™ syllabic speech processing for an added 4–6dB advantage to cut through noise, fading, and QRM • Handheld dynamic mic that complements speech processing • Low drain – 3A from 12V supply or battery • Low noise preamp and active double balanced mixer front end • Sharp 2.3kHz SSB crystal ladder filter reduces passband noise, fights QRM, and improves intelligibility • TVI protection (built-in 7 element lowpass filter) • Real S-meter • Reduction drive analog VFO allows scanning the band for signals quickly, then zeros in smoothly • Amplifier jack • 2.5h" x 6.5"w x 6"d

9420X 20M SSB (14.150–14.350MHz).... **\$229.99**

9440X 40M SSB (7.150–7.3MHz)..... **\$229.99**

9475X 75M SSB (3.75–4.00MHz)..... **\$229.99**

Available Accessories:

4110 Portable AC power supply, 4114 Rechargeable power pack, 415B CW adapter (9420X and 9440X only), 971 200W HF tuner



ORP SINGLE BAND CW TRANSCEIVERS

Easy operation! Sets up in seconds. • 5W CW • Great sensitivity – hot superhet receiver with super-quiet FET post amp stage in the IF filter • Excellent selectivity – tight CW bandwidth crystal ladder filter fights unwanted QRM and noise • Smooth and stable VFO (wide-spaced reduction drive VFO capacitor) • True RIT • Recovery AGC • Built-in 3" speaker • Low power drain – 50mA on receive and 1.2A peak on transmit • Semi-QSK – set adjustable hold transmit/receive switching to suit your normal sending speed or set for full QSK during contests • Compact • 5 models below

9015 5W, 15M (21.000–21.200MHz) **\$169.99**

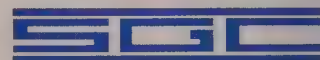
9020 5W, 20M (14.000–14.075MHz) **\$169.99**

9030 5W, 30M (10.100–10.150MHz) **\$169.99**

9040 5W, 40M (7.000–7.150MHz) **\$169.99**

Available Accessories:

1770 Portable 15M dipole, 1772 Portable 20M dipole, 1773 Portable 30M dipole, 1774 Portable 40M dipole, 27 Handle for CW station, 4110 portable AC power supply, 4114 Rechargeable power pack, 412 Plug-in Curtis keyer, 726 Plug-in audio filter, 971 200W portable antenna tuner/meter



HF SSB TRANSCEIVERS

SG-2000 (04-01) HF SSB Global Radio Telephone With full frequency coverage for voice and data. Talk anywhere in the world on the HF Ham bands, receive and send time sensitive documents, decode UPI transmissions, get latest weather reports or listen to shortwave broadcasts. Also, great for marine use. It can be fully computer controlled via a standard RS-232 connector. The front panel can also be used as a remote head terminal (up to 8 remote heads can be utilized). • 1.8–30MHz tx, 500kHz–30MHz general rx • 150W • Modes: A3A, A3H, A3J and CW in LSB/USB, true AM in receive mode and data • 100 field-programmable and 644 factory-programmed ITU & data channels • 100 programmable scan channels • 13.6VDC @ 16A • 4.75" h x 10" w x 15" d, 12 lbs..... **\$1599.99**

Available Accessories:

0411 Standard remote head/bracket/20' cable, 0412 Remote kit/swivel bracket/cable, 0413 Remote kit/5-way mount/cable, 0415 Remote mobile head (memory channels only), 0422 Powertalk remote head, 5182 Fan kit for continuous transmit, 5232 Carbon telephone handset, 5234 RS232 interface, 5251 CA-1 HV feed wire, 5253 CA-230 antenna coupler cable, 5254 CA-2000 remote head cable, 5261 PSC/12-1 12' power supply cable/1 plug, 5262 PSC/12-2 12' power supply cable/2 plugs, 5304 PS-30 30/40A peak unregulated power supply, 5305 PS-50 50/70A peak unregulated power supply



PowerTalk™ SG-2000 (04-10) HF SSB Transceiver With the PowerTalk™ SG-2000, you'll intercept more weak HF signals, increase signal clarity and eliminate unwanted noise. You'll hear SSB signals clearer and easier than ever before. Combines SGC's exclusive ADSP™ (Automatic Digital Signal Processing) and SNS™ (Signal Noise Subtraction). A DSP command center with a high performance spinner knob and bright LED indicators. Includes all of the outstanding features of the SG-2000: 644 Ham and ITU discrete frequencies • 150W • Programmable memory • Large LCD **\$1849.99**

Available Accessories:

0412 Remote kit/swivel bracket/cable, 0413 Remote kit/5-way mount/cable, 0422 Powertalk remote head, 5232 Carbon telephone handset, 5234 RS232 interface, 5251 CA-1 HV feed wire, 5253 CA-230 antenna coupler cable, 5254 CA-2000 remote head cable, 5261 PSC/12-1 12' power supply cable/1 plug, 5262 PSC/12-2 12' power supply cable/2 plugs, 5304 PS-30 30/40A peak unregulated power supply, 5305 PS-50 50/70A peak unregulated power supply



SG-2020 (05-01) Compact HF SSB/CW Transceiver Small, but fully microprocessor-controlled and loaded with "Big Rig" features. Take it and use it anywhere - fixed, mobile, portable, aviation or boating. Operating from 12V DC, it has the lowest current consumption on the market. • 1.8-29.7 MHz amateur bands • 400kHz-29.7MHz general coverage receive • SSB/CW modes • 0-20W PEP output, ad-justs down to 1W for QRP • 40 memories • Backlit LCD display • Built-in IAMBIC "B" mode electronic keyer • Noise blanker • RF speech processor and clipping • SWR metering and voltage indicator • SPLIT, RIT, XIT • AF bandpass tuning • Handheld, dynamic microphone • Requires 13.8V DC @ 3A • 2.75" h x 6" w x 7.5" d, 4.5 lbs. **\$675.99**

SG-2020 (05-02) Same radio as above with 20 memories and the addition of ADSP™. The added PowerClear™ DSP software provides superior tone rejection (better than 57dB) and dynamic noise rejection (better than 18dB) **\$795.99**

Available Accessories:

5422 SG-239 200W SmartTuner

FREE ITEMS included with some radios.
See Price Guide for details.



HF TRANSCEIVERS

FT-100D Ultra-Compact HF/VHF/UHF All Mode Transceiver Widely acclaimed for outstanding performance and flexibility. Wide frequency coverage and versatile - a great compact mobile, vacation or expedition radio. Covers 160-6M, 144-148MHz, 430-450MHz • General receive: 100kHz-30MHz, 30-970MHz (cell blocked) • 100W output on HF/6M; 50W on 2M; 20W on 430MHz • DSP system enhances signal-to-noise ratio via bandpass, noise reduction and automatic notch filters • Dual VFOs • Electronic keyer built-in • 200 memories and Quick Memory Bank • SmartSearch™ auto memory channel loading • Improved high-quality speaker • 500Hz, 8-pole crystal filter (CW) • High stability reference oscillator • CTCSS decode • Bright LCD with multi-function display • VOX • Requires 13.8V DC @ 22A • 6.3" w x 2.1" h x 8" d **\$839.99**

Available Accessories:

ATAS100 HF/6M/2M/430MHz motorized antenna, ATBK100 ATAS100 base kit/use with mount, CT39 Packet cable, CT58 Band data cable, CT62 CAT interface cable, CT69 6-pin mod/8-pin mic jack, FC20 Automatic antenna tuner, FP1023 23A switching power supply with fan, FP1030A 25A power supply with meters, LL5 Phone patch unit, MLS100 Mobile speaker, MMB62 Remote control panel bracket, MMB67 Quick release bracket, SP6 External speaker, SP7 External speaker, T9021925 Extra DC cord, XF117A 6kHz AM filter, XF117CN 300Hz CW filter, YH77STA Stereo headphone, YSK100 Separation kit



FT-840 Compact High Performance HF Transceiver Blending high performance digital synthesis techniques, convenience and affordability from previously successful radios, the FT-840 adds a choice of two optional remote automatic antenna tuners and a wealth of convenient functions. • Direct Digital Synthesis • Covers 160-10M with 50 kHz-30MHz general coverage receiver • 100W output (25W AM) • 100 memory channels • Low noise FET front end • Two direct digital synthesizers (DDSS) and magnetic rotary encoder for smooth tuning • Twin band-stacking VFOs • IF shift • Reverse CW • FM repeater with auto 10M repeater offset • Selectable CTCSS • Requires 13.8V DC @ 20A • 9.2" w x 3.6" h x 9.5" d, 9.9 lbs **\$579.99**

Available Accessories:

FC10 Extra coax fed auto tuner, FC800 Extra long wire auto tuner, FIF232C RS-232 interface, FM747 FM unit, FP1023 23A switching power supply with fan, FP1030A 25A power supply with meters, MD100A8X Desk mic with tone control, MLS100 Mobile speaker, MMB20 Mobile mount, SP6 External speaker, SP7 External speaker, TCXO4 TCXO unit, T9018320 DC cord, YF112A 6kHz AM filter, YF112C 500Hz CW filter, YH77STA Stereo headphone



FT-817 HF/VHF/UHF Backpack Transceiver Self-contained, battery-powered, low power, amateur transceiver for camping, mountain topping, portability. • Transmit: 160-10M, 50MHz, 144MHz, 430-450MHz, plus Alaska Emergency Channel (5167.5 kHz) • Receive: 100kHz-56MHz, 76-154 MHz, 420-470MHz • AM aircraft receive • 200 memories, plus home channels and band-limit (PMS) • Alpha-numeric labels • SmartSearch™ auto memory loading • 5W SSB/CW/FM with 13.8V external DC, 1.5W AM, 2.5W SSB/CW/FM with 9.6V NiCad pack or 8 AA's (includes internal alkaline case), 0.7W AM, up to 5W SSB/CW/FM power programmable via menu on NiCad or AA's • USB, LSB, CW, AM, FM, W-FM, Digital (AFSK), Packet (1200/9600 FM) • Digital: RTTY, PSK31-U, PSK31-L, and user-defined USB/LSB (SSVT, Pactor, etc.) • Two-color, multi-function LCD • Meters power output, ALC, SWR, modulation • RF gain/squelch control • Built-in noise blanker • Attenuator • Dual VFOs, split capability, IF shift, and RIT • Built-in CW electronic keyer • VOX • Automatic repeater shift • Built-in CTCSS and DCS • ARTS™ • Spectrum scope • Front/rear panel antenna connectors • Data, accessory and key jacks • CAT system computer control capability • 5.31" w x 1.5" h x 6.5" d, 2.6 lbs **\$669.99**

Available Accessories:

W4ROTT1 One-touch tune, CSC83 Soft case, CT39 Packet cable, CT62 Cat interface cable, EDC6 DC cord, FNB72 9.6V 1000ma NiCad, MH36E8J TTP mic, NC72B Wall charger, TCXO9 TCXO unit, YF122C 500Hz Collins CW filter, YF122S 2.3kHz Collins SSB filter



FT-920 HF + 50MHz All Mode Transceiver Direct digital frequency synthesis • Covers 160-6M with 100kHz-30MHz, 48-56MHz general receive • Power output adjustable up to 100W (25W AM) • Multi-function tuning dials and keyboard frequency entry • 127 memories with alphanumeric labels • Multiple scanning functions • Dual watch system • Quick memory bank (QMB) instant memory system • Built-in high-speed antenna tuner, digital voice recorder and electronic memory keyer • DSP speech processor, auto notch filter, noise reduction and VOX control • CW spot and pitch controls IF shift • QSK and built-in electronic keyer • Noise blanker • Dual antenna jack plus receive-only antenna jack • ShuttleJog™ control • Independent RX preamps for high and low bands • OmniGlow™ LCD with twin frequency displays • RS-232 computer control interface • Requires 13.8VDC @ 22A • 15.2" w x 5.3" h x 12.5" d, 24 lbs **\$1139.99**

Available Accessories:

FM1 FM unit, FP1023 23A switching power supply with fan, FP1030A 25A power supply with meters, LL7 Phone patch unit for SP8, MD100A8X Desk mic with tone control, MD200A8X Deluxe high fidelity desk mic, SP8 External speaker with filters, TCXO7 TCXO unit, T9018320 DC cord, YF116A 6kHz AM filter, YF116C 500Hz CW filter, YH77STA Stereo headphone



FT-847 HF/VHF/UHF All Mode Transceiver All mode operation on HF, 50MHz, 144MHz, and 430MHz with full satellite capability • Covers 160-6M, 2M, 70cm and 5.1675MHz (Alaska emergency channel) • General receive: 100kHz-30MHz, 36-76MHz, 108-74MHz, 420-512 MHz • 100W output on HF/6M (25W AM); 50W (12.5W AM) on 2M/430 MHz • High resolution 0.1Hz tuning steps • Shuttle-Jog™ tuning ring • Direct frequency keypad entry • Low noise VHF/UHF preamps built-in • Advanced DSP system enhances signal-to-noise ratio via sophisticated bandpass, noise reduction and automatic notch filters • Cross band full duplex operation • Normal/reverse tracking and dedicated satellite memories • 1200/9600 bps packet ready • CW sidetone/pitch control • Built-in CTCSS/DCS • Four antenna jacks on rear panel • Requires 13.8V DC @ 22A • 10.2" w x 3.4" w x 10.6" d, 14.4 lbs **\$1249.99**

Available Accessories:

ATAS100 HF/6M/2M/430MHz motorized antenna, ATBK100 ATAS100 base kit, CT61 Amp interface cable, FC20 Automatic antenna tuner, FP1023 23A switching power supply with fan, FP1030A 25A power supply with meters, FVS1A Voice synthesizer, MD100A8X Desk mic with tone control, MD200A8X Deluxe high fidelity desk mic, MH36D8 DTMF mobile microphone, MMB66 Mobile mounting bracket, SP8 External speaker with filters, T9018320 DC cord, YF115C 500Hz CW/Collins Mechanical filter, YF115S02 2.5kHz SSB/Collins Mechanical filter, YH77STA Stereo headphone



FT-1000D 200W HF All-Mode Transceiver Judged "best overall" by top DX'ers worldwide, the FT-1000D delivers optimum receiver performance and real "muscle" on transmit. With a front panel featuring two flywheel weighted tuning knobs and two large displays, it's a perfect blend of ergonomics and electronics. Hear signals you've never heard before. • Direct Digital Synthesis (DDS) • Covers 160-10 meters with 100kHz-30MHz general coverage receive • 100 memory channels store frequency, mode, and filter selection • Up to 200W power output (AM 50W) • True cross-band dual receive (dual receiver front ends and IFs), two large tuning knobs • Front panel receive antenna switch for beverage or loop antenna • Built-in antenna tuner with 32 memories • CW spot and two CW key jacks for maximum convenience • CAT system for computer control • Built-in 110/220VAC power supply • 5.9" h x 16.4" w x 14.8" d, 31lbs **\$4199.99**

Available Accessories:

DVS2 Voice recording module, FIF232C RS-232 interface, LL5 Phone patch unit, MD100A8X Desk mic with tone control, MD200A8X Deluxe high fidelity desk mic, SP8 External speaker, XF455MC 600Hz CW filter, YF110CN 250Hz CW filter/XFF, YH77STA Stereo headphone



FT-1000MP MK V 200W HF All Mode Transceiver Represents the crowning achievement in Yaesu's HF transceiver design history. A unique blend of analog and digital technology, the MARK-V is based on the concept of rigorous filtering in all stages of the receiver and transceiver. Introduces all-new features to the FT-1000 series. • IDBT (Interlocked Digital Bandwidth Tracking), which matches the receiver passbands of the 8.2 MHz IF, 455kHz IF and DSP systems • VRF (Variable RF Front-end Filter), providing a high-Q "Preselector" system protecting the receiver's front end. • 200W MOSFET Final Amplifier, conservatively rated with revolutionary heat sink design • 75W optional Class-A PA operation, providing extraordinary SSB signal purity • Integrated ShuttleJog™ control, combines the access buttons for IDBT and VRF with the convenient frequency control of Yaesu's exclusive Shuttle-Jog™. • High-speed automatic antenna tuner, beefed up for operation at the 200W level • Separate switching power supply, provides 30V for MOSFET PA transistors, as well as 13.8V for the other circuitry. • 16.4" w x 5.4" h x 13.9" d, 31 lbs. (xcvr), 4.2" w x 5.4" h x 13.6" d, 13 lbs. (power supply) .. **\$2599.99**

Available Accessories:

DVS2 Voice recording module, FH1 Remote control keypad, FTV1000 200W 6M transverter, LL7 Phone patch unit for SP8, MD100A8X Desk mic with tone control, MD200A8X Deluxe high fidelity desk mic, MH31B8 Extra hand mic, SP8 External speaker with filters, TCXO6 Deluxe TCXO unit, YF110CN 250Hz CW filter/XFF, YF110SN 2kHz SSB filter/XFD, YF114CN 250Hz CW second IF main receive, YF114SN 2kHz SSB second IF main receive, YF115C 500Hz CW/Collins Mechanical filter, YH77STA Stereo headphone



FTV-1000 200W 50MHz Transverter for the FT-1000MP MK V Utilizes the same high-performance power MOS FET transistors as are used in the FT-1000MP MK V. The PA stage operates at 30V DC, provided by the MK V power supply. The output devices, capable of 300W PEP, are run well below their max. ratings for high reliability. Also, the thermostatically-controlled cross-flow cooling fan keeps operation cool.

The exclusive Class-A bias capability is now extended to the FTV-1000 50MHz operation giving you the cleanest SSB signal on the band! It also features a High Dynamic Range Receiver Front End, utilizing a high-intercept design with JFETs in a double balanced mixer. Driving the mixer is a low-noise-figure MOSFET preamp, with two gain selections available. For local work, select IPO, which bypasses the internal preamp for direct feed to the mixer. A 12dB input attenuator is also available when working with extremely strong local signals.

The stylish, logically-designed front panel makes operation a breeze! High quality rocker switches control all functions, with convenient LED indicators. Its superb ergonomics are a perfect complement to the FT-1000MP MK V. **\$899.99**



SINGLE BAND MOBILE RADIOS

The AR-147+, 247 and 447 include features that one would expect to find on a modern amateur mobile including AM air receive (AR-147+ only), direct frequency entry, lots of memory channels and more. Both CTCSS and Digital Coded Squelch to ensure compatibility with all repeater systems. • MARS/CAP capable • 80 multi-function memories plus call channel • Auto repeater offset • 9 DTMF autodialer memories + redialer • Programmable band and memory scan modes • Time-out timer • DTMF paging • Dual frequency watch • PC programming capability • Frequency/channel display modes

AR-147+ 2M Mobile Transmit: 144-148MHz • Receive: 118-171MHz • Three power settings (60, 10, 5W) • 1.5" x 5.5" x 6.25", 2.7lbs **\$149.99**

AR-247 220MHz Mobile Transmit: 222-225MHz • Receive: 216-229MHz • Three power settings (30, 10, 5W) • 1.5" x 5.5" x 6.25", 2.7lbs **\$209.99**

AR-447 70 Centimeter Mobile Transmit: 430-450MHz • Receive: 420-460MHz • 3 power settings (35, 10, 5W) • 1.5" x 5.5" x 6.25", 2.7lbs. **\$209.99**

Available Accessories:

MTGBKT Mobile bracket, PROG47 PC programming software and cable, PWRCORD DC cable

FREE ITEMS included with some radios.
See Price Guide for details.

ALINCO
AMATEUR RADIO'S VALUE LEADER™



SINGLE BAND MOBILES

DR-M06TH 6M FM Transceiver Covers 50-54MHz • FM, selectable 20/1W output • 100 memories plus CALL channel • 50 tone CTCSS encoder • Programmable repeater offset for each memory channel • Time-out-timer • 13.8V DC @ 3A • 5.5" w x 1.5" h x 4.5" d, 1.6 lbs • Includes DTMF hand mic **\$259.99**

Available Accessories:

HK130 Hardware kit, MB130 Mounting bracket, PC15B DC cable

Manufacturer	ALINCO*	ALINCO	ICOM*	ICOM	ICOM	ICOM	ICOM	ICOM	KENWOOD	KENWOOD	KENWOOD	KENWOOD	KENWOOD
Model	DX-70TH	DX-77T	IC-706MKIIG	IC-718	IC-746 & IC-746PRO	HF, 6M	HF, 6M, 2M	IC-756PRO & IC-756PROII	IC-775DSP	TS-2000, TS-82000 TS-2000X	TS-50S	TS-570D(G)	TS-570S(G)
Bands	HF, 6M	HF	HF, 6M, 2M, 700M	HF	HF, 6M	HF, 6M	HF, 6M, 2M	HF, 6M	HF	HF, 6M, 2M	HF	HF	HF
Rx Range (MHz)	15-30, 50-54	5-30	03-200, 400-470	03-30	03-200	03-60	01-30	03-60	01-30	03-60, 142-152 420-450 1240-1300*	5-30	5-30	5-30, 6M
Power (SSB/CW/FM)	100W HF/6M	10-100W	5-100 HF/6M 5-50 2M 2-20 700M	5-100W ⁽ⁿ⁾	5-100 HF/6M/2M	5-100	5-200W	5-100	5-200W	100W HF/6/2M 50W 700M 10W 1.2GHz*	100W	5-100W	5-100W HF/6M
Power (AM)	40W HF/6M	4-40W	2-40W HF/6M 2-20W 2M 2-8W 700M	2-40W	5-40W HF/6M/2M	5-40	5-50W	5-40	5-50W	25W HF/6/2M 12.5W 700M 2.5W 1.2GHz*	5-40W	5-25W	5-25W
DSP	No	No	Yes	Optional	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
Tuner	No	No	Optional	Optional	Internal	Internal	Internal	Internal	Internal	Yes	No	Yes	Yes
Keyer	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
Speech Readout	No	No	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Yes	No	Optional	Optional
VOX	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
Power Requirements	12VDC, 20A	12VDC, 20A	12VDC, 20A	12VDC, 20A	12VDC, 20A	12VDC, 23A	125VAC	12VDC, 20.5A	12VDC, 20.5A	12VDC, 20.5A	12VDC, 20.5A	12VDC, 20.5A	12VDC, 20.5A
Antenna ports	2 ⁽¹⁾	1	2 ⁽³⁾	1	3 ⁽⁴⁾	2	2	5	1	2	2	2	2
Computer Port	No	Optional	Optional	Optional	Optional	Optional	Optional	Yes	Optional	Optional	Optional	RS-232	RS-232
Height (in.)	23	37	23	37.5	47	43	5.9	3.75	2.4	3.8	3.8	3.8	4.8
Width (in.)	7	9.8	6.6	9.40	11.3	18.3	16.7	10.625	7.1	10.6	10.6	10.6	13
Depth (in.)	9	9	7.9	9.40	12.5	11.2	15.4	12.5	9.2	12.5	10.7	10.7	13.1
Weight (lbs.)	6	8.4	5.5	8.4	19.5	21	36.8	17.19	6.4	15	15	15	25.4

Manufacturer	MFJ	MFJ	MFJ	MFJ	MFJ	MFJ	SGC*	SGC*	SGC	YAesu*	YAesu	YAesu	YAesu	YAesu
Model	9015	9020	9030	9040	9420X	9440X	9475X	04-01 SG-2000	04-10 POWER TALK	05-01/05-02 SG-2020	FT-100D	FT-817	FT-840	FT-847
Bands	15M	20M	30M	40M	20M	40M	75M	HF	HF	HF, 6M 2M, 70CM	HF, 6M 2M, 70CM	HF, 6M 2M, 70CM	HF, 6M 2M, 70CM	HF
Rx Range (MHz)	21- 21.2	14- 14.075	10.1- 10.15	7-7.15	14.15- 14.35	7.15-7.3	3.75-4	5-30	5-30	1.8-29.7	1-56 1-96 ^(a)	1-56 76-154 420-470	1-30 108-174 420-512	1-30 108-174 420-512
Power (SSB/CW/FM)	5W CW	5W CW	5W CW	5W CW	12W SSB	12W SSB	12W SSB	150W SSB/CW	150W SSB/CW	0-20W SSB/CW	100W HF/6M 50W 2M 20W 70CM	5W	100W ^(a) 5-100W HF/6M 50W 2M/70CM	10-100W ^(a) 5-100W HF/6M 50W 2M/70CM
Power (AM)	No	No	No	No	No	No	No	40W	40W	No	25W HF/6M 20W 2M 12.5W 70CM	1.5W	25W	2.5-25W
DSP	No	No	No	No	No	No	No	Yes	No	No	Yes	No	Yes	Yes
Tuner	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Keyer	No	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes
Speech Readout	No	No	No	No	No	No	No	No	No	No	No	No	No	No
VOX	No	No	No	No	No	No	No	No	No	No	Yes	Yes	No	Yes
Power Requirements	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 30A	12VDC 30A	12VDC 5A	12VDC 2A	12VDC 2A	12VDC 22A	12VDC 22A
Antenna ports	1	1	1	1	1	1	1	1	1	1	2 ^(a)	2	1	2
Computer Port	No	No	No	No	No	No	No	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Height (in.)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.6	4.6	2.75	2.2	1.5	3.7	5.3
Width (in.)	6.5	6.5	6.5	6.5	6.5	6.5	6.5	10	10	6	6.3	5.3	9.4	16.1
Depth (in.)	6	6	6	6	6	6	6	15	15	7.25	8	6.5	9.6	12.4
Weight (lbs.)	2	2	2	2	2	2	2	12	12	2.5	6.6	2.6	12	30.8

*Removable control head

*Optional module required for TS-2000 and B versions

1) One port for HF: one port for 6M

2) Optional board required for FM

3) HF/6M one port, 2M/440MHz second port

(4) Two ports for HF, one dedicated for 2M

(5) Port per band. HF/6M can be combined

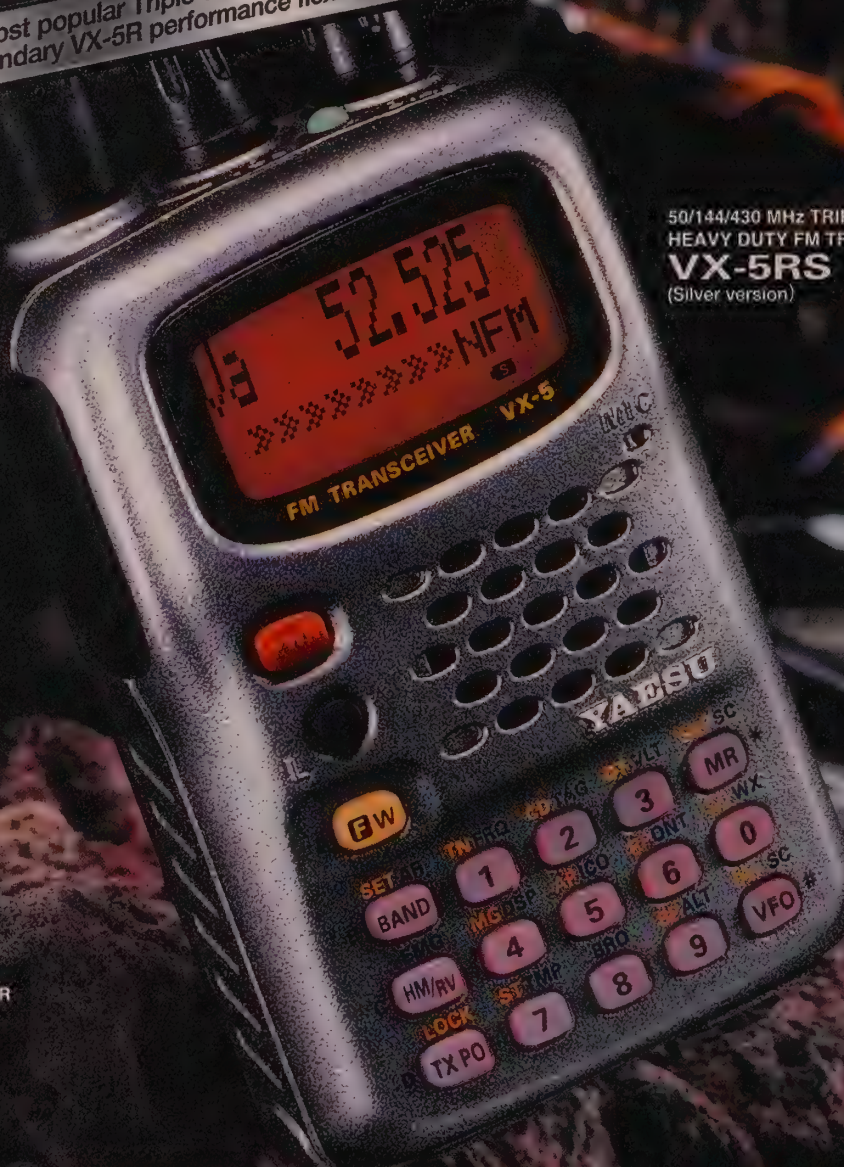
(6) Cell blocked

(7) No FM

FREE ITEMS included with some radios.
See Price Guide for details

Metallic Silver

The VX-5R, the world's most popular Triple-Band Hand-Held FM Transceiver, is now available in a beautifully-crafted Silver version: the VX-5RS! With the legendary VX-5R performance flexibility, the stylish VX-5RS is the shining star for Amateur VHF/UHF operation!



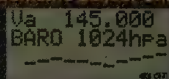
50/144/430 MHz TRIPLE-BAND
HEAVY DUTY FM TRANSCEIVER
VX-5RS
(Silver version)



50/144/430 MHz TRIPLE-BAND
HEAVY DUTY FM TRANSCEIVER
VX-5R
(Black version)

Features

- Ultra Compact: 2.4" x 4.1" x 1.3"
- Aluminum Diecast Case
- MIL-STD 810 Rating
- Optional Barometric Sensor Unit
- 5 W Power Output (430 MHz: 4.5 W)
- AM/Shortwave Receive
- AM Aircraft Receive
- High-Capacity Lithium-Ion Battery: 7.2 V @ 1100 mAh
- CTCSS and DCS Built In
- Dot Matrix LCD
- Dual Watch
- Spectra-Scope™ Graphical Display
- 220 Memories plus "Home" Channels
- Ten Pairs of "Band Limit" Memories
- Ten Auto-Scan Weather Channels. (North American version)
- 8-Digit Alphanumeric Memory Tags
- Convenient Icon Display Mode
- Smart Search™ Automatic Memory Loading
- Automatic Repeater Shift
- Auto-Range Transponder System (ARTS™)
- Multiple Battery Savers
- Time-Out Timer (TOT)
- Busy Channel Lock Out (BCLO)
- Versatile High-Speed Scanning
- 16-Digit 9-Memory DTMF Autodialer
- One-Touch Emergency Channel
- ADMS Windows™ PC Programmable
- Innovative Multi-Section Antenna
- Full Line of Accessories



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The Ultimate Backpacker!

FIELD



CAMPING



HOME



Actual Size

Bring Ham Radio along on your next hiking, camping, or business trip with Yaesu's amazing new FT-817 Multimode HF/VHF/UHF Portable Transceiver!

- **ULTRA COMPACT:** Measuring just 5.3"x 1.5"x 6.5" WHD (135 x 38 x 165 mm) and weighing about 2 1/2 pounds (1.17 kg, including the supplied antenna and alkaline cells), the FT-817 is small and light enough to take along wherever you're going.
- **WIDE FREQUENCY COVERAGE:** 160-10 meters on HF, plus the 50, 144, and 430 MHz Amateur bands. Plus FM Broadcast, AM Aircraft, and Public Safety receiver coverage.
- **MULTIMODE DESIGN:** Ready for action on SSB, CW, AM, FM, FM-Wide (Rx), 1200/9600 bps Packet, and Digital, including dedicated USB and LSB PSK-31 configurations.
- **5 WATTS POWER OUTPUT:** Using a new-technology all-band MOS FET power amplifier, the FT-817 provides 5 Watts of power output when using a 13.8 Volt DC source. When using Alkaline batteries or the optional FNB-72 Ni-Cd Battery Pack, power is automatically set to 2.5 Watts; via Menu, this can be changed to 0.5 Watt, 1 Watt, or up to 5 Watts.
- **WIDE CHOICE OF POWER SOURCES:** The FT-817 is equipped with an alkaline "AA" cell battery case, and a 13.8 volt DC cable is also supplied. Available as an option is the FNB-72 Ni-Cd Battery Pack (9.6 V, 1000 mAh), which can be recharged using a 13.8 Volt power supply while the radio is being operated.
- **TWO ANTENNA PORTS:** A "BNC" connector is provided on the front panel, and a type "M" connector on the rear panel, with Menu selection of which connector will be assigned for operation on HF, 50 MHz, 144 MHz, and 430 MHz.
- **OPTIONAL COLLINS' MECHANICAL FILTERS:** An optional filter slot is provided, accommodating either the YF-122S (2.3 kHz) 10-pole SSB filter or the YF-122C (500 Hz) 7-pole CW filter. You get "base station" performance even from a mountain top.

- **INCREDIBLE MEMORY RESOURCES:** You get a total of 208 memories, including 200 "regular" memories which may be separated into ten groups of up to 20 channels each. And you can append an Alpha-Numeric "Tag" to each memory to aid in channel identification.
- **A CW OPERATOR'S DREAM MACHINE:** You get a built-in Electronic Keyer with adjustable weighting, adjustable CW Pitch, CW Normal/Reverse frequency tuning, and you can even use the microphone's UP and DOWN keys to send CW via the Keyer.
- **BUILT-IN CTCSS AND DCS:** The built-in CTCSS and DCS Encoder/Decoder systems provide you with the versatility you need for repeater access or selective calling.
- **DUAL - COLOR LIQUID CRYSTAL DISPLAY:** Select from Blue or Amber display illumination, which can also be switched off to conserve battery life. And while you're away, the Spectrum Scope will provide you with a visual record of activity ± 5 channels from your current operating frequency.

ALL MODE PORTABLE TRANSCEIVER

FT-817

HF/50/144/430 MHz Multimode Transceiver

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Vertex Standard
US Headquarters
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Cerritos, CA 90703 (562)404-2700

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Specifications subject to change without notice. Specifications guaranteed only within Amateur bands. Some accessories and/or options are standard in certain areas. Frequency coverage may vary in your country. Check with your local Yaesu dealer for specific details.

Simultaneous Reception



A New Dual-Band Engineering Milestone: Introducing the Dual Band Mobile for the 21st Century's Active Ham!

The Yaesu Engineering Team has done it again! The exciting new FT-7100M Dual Band Mobile brings you the ruggedness and operating ease of our single-band mobiles, and the convenience of remote-head mounting capability (optional YSK-7100 Separation Kit required), in an all-new 144/430 MHz Dual Band design!

Providing 50 Watts of power output on 2 meters, and 35 Watts on 70 cm, the FT-7100M has power to spare when you're in a fringe area. For repeater access or selective simplex calling, you get built-in encoder-decoder circuits providing 50 CTCSS tones and 104 DCS (Digital Code Squelch) codes. And the FT-7100M's huge 262-channel Memory System lets you store up to six Alpha-Numeric characters, for easy channel identification.

Operation of the FT-7100M is simple and straightforward, with separate Volume and Squelch controls for each band during dual-band reception, and eight single-function front panel keys provide the easy feature access you need during mobile operation. What's more, you also get three user-definable keys on the microphone to use for important control functions.

Rugged, reliable, and versatile, the FT-7100M provides the highest cost-performance available among Dual Band FM Mobiles. See your Yaesu Dealer today for a test drive!

FEATURES

- Frequency Range: TX 144-148, 430-450 MHz
RX 108-137 MHz (AM), 137-180 MHz, 320-480 MHz, 810-999.99 MHz (Cellular blocked)
- VHF/UHF, VHF/VHF, and UHF/UHF Dual Receive operation*
- Channel Steps: 5/10/12.5/15/20/25/50 kHz/step
- Power Output: 50 Watts (144 MHz)
35 Watts (430 MHz)
- Power Amplifier Type: 2SK3478 Power MOS FET
- Efficient Cooling System: Direct-flow heat-sink and thermostatically-controlled fan
- 262 Memory Channels: 120 "regular" memories, 5 pairs of band limit memories, and one "HOME" channel on each band
- Alpha-Numeric Memory Labels: 6 Characters on lower display field, 5 Characters on upper
- Smart Search™ Automatic Memory Loading System
- 50 CTCSS Encode/Decode Tones
- 104 DCS Encode/Decode Codes
- CTCSS and DCS Search
- ARTS™ (Auto-Range Transponder System)
- Automatic Repeater Shift (ARS)

- DTMF Microphone (U.S. version): Includes 16-memory Auto-dialer, and Direct Frequency Entry
- Band Scanning, Band-Limit Scanning, and Memory Scanning
- Three Priority Channel Modes: VFO, Memory, and Home Channel Priority
- RF Squelch: Opens at user-defined signal level
- Tx Time-Out Timer (TOT)
- Automatic Power-Off (APO)
- 1200/9600 bps Packet Compatible
- Battery Voltage Meter
- Compact Size: 5.8" x 1.9" x 6.9" WHD
- Large (0.9" x 2.3") Liquid Crystal Display
- Cloning Capability: To other FT-7100M Transceivers
- Optional YSK-7100 Separation Kit
- Optional CT-39A Packet Cable

*Simultaneous reception on two different Frequencies, in-band or Cross-Band. Cross-band Repeater Function not available.

144/430 MHz FM Dual Band
Mobile Transceiver

FT-7100M



Actual Size

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<http://www.vxstdusa.com>

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MOBILE DX MASTER

Since its introduction over a year ago, Yaesu's FT-100 HF/VHF/UHF Transceiver has been widely acclaimed for its outstanding performance and flexibility. Now the FT-100D builds on this success story, adding the convenience of factory-installed modules for today's Ham on the go!

FT-100D HIGHLIGHTS

The FT-100D is a high-performance, ultra-compact transceiver operating on the 160-10 meter HF bands, plus the 50, 144, and 430 MHz VHF/UHF bands. Known for its outstanding receiver performance, the FT-100D's easy-to-access DSP system is the cornerstone of the outstanding receiver capability. Providing Noise Reduction, Auto-Notch, and Narrow-Bandwidth Filter selection, the DSP system also includes a Microphone Equalizer for the transmit side.

The new and enlarged speaker of the FT-100D ($\phi 66$ mm) provides spectacularly clean audio output, to help you dig out those weak signals.

Whether at home or away, the fantastic new FT-100D is The Choice of the World's Top DX'ers. Step up to the FT-100D, and enjoy the thrill of the sunspot peak in style!

MICRO MOBILE

FT-100D

Ultra-Compact HF/VHF/UHF Transceiver



Vertex Standard
US Headquarters
10900 Walker Street
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DR-135TP 2M Mobile/Base Voice/Data Transceiver 144-148MHz tx; 118-135.995MHz (AM aircraft), 136-173.995MHz rx • 50/10/5W • Wide or narrow FM • 1200/9600bps TNC • 100 alphanumeric memories, 1 call • 7-character, 3-mode display • CTCSS/DCS, 4 Euro bursts • Backlit DTMF mic • 10 autodialer memories • Multi scan modes • Front panel GPS input • Rear panel PC connection • Ignition key on/off • Theft alarm • 13.8V DC @ 11A • 5.58" w x 1.57" h x 6.83" d, 2.3 lbs .. **\$269.99**

DR-135T Same, but no TNC **\$169.99**

DR-235T Same, except covers 222-224.995MHz tx, 216-279.995MHz rx • 25W/10/5W ... **\$249.99**

DR-435T Same as DR-135T, but covers 430-450 MHz tx, 400-470MHz rx • 35W **\$259.99**

Available Accessories:

EDC37 DC cable, EDC43 Cigarette lighter cable, EJ40U Digital board, EJ41U 1200/9600 TNC (T-series only), HK130 Hardware kit, MB130 Mounting bracket, PC15B DC cable



DUAL BAND MOBILES

DR-605TQ FM Dual Band Mobile 144-147.995 MHz and 430-449.995MHz tx; 136-173.995MHz and 420-470MHz rx • 50W/10/5W (VHF), 35/10/5W (UHF) • 50 memories, 1 call channel per band • Cross band repeat and full duplex modes • Dual VHF/UHF only displays • Multi scan functions • CTCSS encode, 3 European tone bursts • Twin volume controls • Packet compatible • Cable cloning function • Internal antenna duplexer • MARS/CAP capability • 13.8V DC @ 11.5A • 5.58" w x 1.57" h x 6.8" d, 2.4lbs **\$339.99**

Available Accessories:

EDS8 EMS14 to DR605 adapter, EMS14 Desk top mic, HK130 Hardware kit, MB130 Mounting bracket, PC15B DC cable

Look For This

NEW

& Check Out AES' Latest Additions.



SINGLE BAND MOBILE

IC-2100H 2 Meter Rugged Transceiver Icom's newest and best performer against IMD. Straight-forward, easy-to-use operation • 50/10/5W • 144-148MHz transmit • 136-174MHz receive • One-touch button operation • 113 memories • Cool dual display: selectable green or amber backlit display • Large, user-programmable, alphanumeric display • 4 backlighting levels • Backlit DTMF microphone with 2 user-programmable keys • Heavy duty, one-piece, die cast aluminum chassis • Adjustable attenuator • CTCSS tone encode and decode built-in (program up to 50 tones) • Tone scan built-in • Auto repeater with busy lockout • Priority watch (3 types) • Cloning capability • Mounting bracket included • Built to MIL STD 810 C/D/E for shock and vibration • Requires 13.8V DC @ 12A • 5.5" w x 1.6" h x 7.1" d, 2 lb, 10 oz **Closeout \$149.99**

Available Accessories:

BC96 Microphone holder, CSW2100 Windows software and cable, CS2100 DOS cloning software, EX1759 Infrared receiver, HM90A Wireless microphone, HM98S Replacement TTP mic, HS62 Flexible mobile mic, MB28H Mobile bracket, OPC346 9.8' DC cable, OPC347 23' DC power cable, OPC440 16.4' mic extension cable, OPC441 Speaker extension cable, OPC474 Radio-to-radio cloning cable, OPC478 PC cable, OPC589 8-pin mic jack adapter cable, OPC647 8.2' microphone extension cable, SP10 Slim-line external speaker



IC-V8000 2M FM Transceiver 75W output power – a first! • TX 144-148, RX 136-174MHz • 207 alphanumeric memory channels including 1 call channel, 6 scan edges • Weather alert and weather channel scan • DMS scan system • Each memory channel stores a 6 character name, tone frequency, skip info, and more • Priority watch • CTCSS/DTCS • Dynamic Memory Scan, customize/manage memory banks • DTMF encode and pager function capability • 10 DTMF memory channels with up to 24 digit DTMF codes • Versatile cloning from transceiver to transceiver or PC to transceiver • Front mounted speaker • One-piece, die-cast, rugged, aluminum chassis • Large cooling fan on the back and large cooling fins • Selectable green or amber display • Includes HM-133V remote control microphone • 5.9" w x 2.1" h x 5.9" d, 2.22 lbs **\$249.99**

Available Accessories:

CSV8000 Windows software, OPC347 23' DC cable, OPC440 16.4' mic extension cable, OPC441 Speaker extension cable, OPC474 Radio-to-radio cloning cable, OPC478 PC cable, OPC589 8-pin mic jack adapter cable, OPC647 8.2' mic extension cable, SP10 Slim-line external speaker, UT108 DTMF decoder unit, V8000MMB Mobile bracket



DUAL BAND MOBILES

IC-207H 2M/440MHz Super Compact Dual Bander • 50W (VHF), 35W (UHF) • Transmit 144-148MHz and 440-450MHz • VHF wideband receive: 118-174MHz (includes Air Band) • 162 memory channels • Works one band at a time. Switch between bands with a touch of the large blue button • 9600 baud packet ready • CTCSS enc/decode • Auto repeater function • Multi-function backlit remote control microphone • Optional wireless microphone • 4 power settings per band • Big dials; big keys; big, bright display – easy-to-use on the GO! • Cloneable with optional software and cable • 5.5" w x 1.6" h x 8.4" d, 3.1 lbs **\$299.99**

Available Accessories:

BC96 Microphone holder, CSW207/2710 Windows software, CS207 DOS programming software, EX1759 Infrared receiver, HM90A Wireless microphone, HS62 Flexible mobile mic, MB28H Mobile bracket, MB58 Remote controller bracket, MB65 Mounting base platform, OPC346 9.8' DC cable, OPC347 23' DC power cable, OPC440 16.4' mic extension cable, OPC441 Speaker extension cable, OPC589 8-pin mic jack adapter cable, OPC600 11.5' separation kit, OPC601 23' separation kit, OPC646 Programming cable, OPC647 8.2' mic extension cable, RMK3 MB58/OPC600/OPC647 package, SP10 Slim-line external speaker



IC-2800H VHF/UHF Dual Band FM Transceiver Top-of-the-line, advanced 2M/440MHz mobile dual bander. LCD has user-selectable display modes and video capabilities. • 50W (VHF), 35W (UHF) • TX: 144-148MHz and 430-450MHz • VHF wideband receive: 118-174MHz • 232 memories • 3" multi-function TFT color LCD • NTSC video port – display modes to suit personal preference • Separate control head with connection cable and 2 mounting brackets • Independent tuning controls • Simple band-scope function • 9600 bps packet terminal • CTCSS enc/decoder • Crossband full duplex capability • Built-in duplexer • Selectable squelch attenuator & delay • Remote control capability • Built-in auto repeater • Time-out timer • Auto power off • PC programmable • Full function, backlit mic • Requires 13.8V DC @ 12A • 5.5" w x 2.75" h x 1.3" d, 10.2 oz. (head); 5.5" w x 1.6" h x 6.6" d, 2 lb, 9 oz. (body) **\$499.99**

Available Accessories:

BC96 Microphone holder, CP13L Right angle cigarette cable/filter, CS2800 Windows cloning software, EX1759 Infrared receiver, HM90A Wireless microphone, MB28H Mobile bracket, MB65 Mounting base platform, MB73 Controller bracket, OPC346 9.8' DC power cable, OPC347 23' DC power cable, OPC440 16.4' mic extension cable, OPC478 PC cable, OPC589 8-pin mic jack adapter cable, OPC647 8.2' mic extension cable, OPC872 Controller extension cable, SP10 Slim-line external speaker, UT49 DTMF decoder



SINGLE BAND FM MOBILE TRANSCEIVERS

Fully loaded with features and built to demanding MIL-STD specifications. Supremely user-friendly.

- High RF output • 61 multi-function memory channels plus 1 call channel • Memory Name (MN) function with 6-digit alphanumeric display • DTSS selective calling • Multi-scan capability • Dual menu system • Multi-function microphone with backlit keys • DTMF memory function • Built-in CTCSS tone encoder (optional decoder) • Tone scan • Wireless cloning function • Repeater reverse switch • Lock function • Busy channel lock out • Auto power-off • Time-out timer • 13.8V DC @ <11A • 5.5" w x 1.5" h x 6.3" d, 2.2 lbs.

TM-261A 2M (pictured) 144-148MHz transmit; 118-174MHz receive • AM Airband receive • 50/10/5W • Auto repeater offset **\$159.99**

TM-461A 440MHz 438-450MHz transmit; 400-470 MHz receive • 35/10/5W • Looks similar to TM-261A except for frequency display **\$439.99**

Available Accessories:

MB201 Mobile brket, PG2N DC cable, TSU8 CTCSS decoder

FREE ITEMS included with some radios.
See Price Guide for details.



TM-331A 220MHz FM Mobile Transceiver Rugged and compact with features that guarantee reliable performance. Covers 222-225MHz transmit and receive • 25/10/5W • Easy-to-read, illuminated keys plus large LCD • 20 multi-function memory channels plus call channel • Multi-scan capability • Tone alert with elapsed time indicator • Page function • CTCSS tone encoder • Time-out timer • Lock function • Auto repeater offset • Repeater reverse switch • Multi-function mic supplied • 13.8V DC @ 6.5A • 5.5" w x 1.5" h x 6.3" d, 2.5 lbs. **\$499.99**

Available Accessories:

KQT8 CTCSS decoder, MB201 Mobile brket, PG2N DC cable



TM-541A 1200MHz FM Mobile Transceiver

Extremely compact and lightweight, perfect for mobile installation. Enhanced night-time operation with its illuminated keys, large LCD, and backlit microphone with DTMF. Covers 1240-1300MHz transmit and receive • 10W RF power output • Easy-to-read, easy to operate illuminated keys plus large LCD display • 20 multi-function memory channels plus call channel • Built-in CTCSS tone encoder • ALT (Automatic Lock Tuning) • Tone alert system with elapsed time indicator • DTSS (Dual Tone Squelch System) • Pager function • Auto-power off • Time-out timer • Multi-scan function • Programmable call • Programmable VFO • Offset and repeater reverse switches • Multi-function backlit DTMF microphone supplied • 13.8V DC @ <6A • 5.5" w x 1.5" h x 6.3" d, 2.4 lbs. **\$449.99**

Available Accessories:

DTU2 Digital paging unit, KQT8 CTCSS decoder, MB201 Mobile brket, PG2N DC cable



DUAL BAND UHF/VHF MOBILES

High performance multi-banders that can receive three bands simultaneously (with the addition of an optional band unit). Available detachable front panel kit and wireless remote control functions (by external DTMF signal) add versatility. Triple receive function with triple display • Selectable frequency step • Built-in DTSS selective calling with page • 101 memories and memory bank system • Flexible scan and scan stop modes • Tone alert system with elapsed time indicator • Triple repeater functions • S-meter squelch • Separate antenna and speaker terminals, squelch and volume control per band • Automatic band change • Sub-band muting • Date/time display, stopwatch, alarm • On/Off timer • Time-out timer • Auto power-off • 13.8V DC @ <11A • 5.9" w x 1.5" h x 6.8" d, 3.3 lbs.

TM-642AD 2M/220MHz (pictured) 144-148MHz transmit/118-174MHz receive and 222-225MHz transmit/215-235MHz receive • 50/10W (2m); 25/10W (220MHz) **\$739.99**

TM-742AD 2M/440MHz 144-148MHz tx/118-174MHz rx and 438-450MHz tx/410-438MHz rx • 50/10W (2m); 35/10W (440MHz) • Looks like TM-642AD except frequency display **\$639.99**

Available Accessories:

DFK3 9' separation display cable kit, DFK4 13' remote cable kit, DFK7 Deluxe 22' remote kit, MJ88 Modular/8-pin adapter, PG2N DC cable, TSU7 CTCSS decoder unit, UT1200 10W 1.2GHz unit, UT2205 25W 220MHz unit (for TM-742AD only), UT4405 35W 440MHz unit (for TM-642AD only), UT505 50W 6M unit



TM-G707A 144/440MHz FM Dual Bander

Extraordinarily user-friendly with its extra-large detachable control panel. Transmit ranges: 144-148 MHz and 430-450MHz; receive: 118-174 and 410-524MHz • 50/10/5W (VHF); 35/10/5W (UHF) • Detachable control panel with high-visibility amber-colored LCD display • 180 multi-function memory channels with alpha-numeric ID • Multi-scan functions • Priority scan function • Built-in CCTSS encoder and decoder • 1200/9600bps packet ready • Cross band repeater access • Selectable frequency step • S-meter squelch • Time-out timer • Dimmer control • Auto power-off • Multi-function backlit microphone with DTMF • 13.8VDC @ 11A • 5.5" w x 1.5" h x 7.4" d, 2.7 lbs. **\$299.99**

Available Accessories:

DFK3C 9' cable kit, DFK4C 13' cable kit, DFK7C Deluxe 23' remote kit, MB201 Mobile bracket, MJ88 Modular/8-pin adapter, PG2N DC cable, PG45 PC interface cable, PG5A Packet data cable, VS3 Voice synthesizer



TM-D700A Data Communicator 144/440MHz

Dual Bander Fully equipped to complement SSTV, GPS and APRS® operations. 144-148MHz and 430-450MHz transmit • Wide-band receive: 118-148, 136-175, 300-524 and 800-1300MHz (cell blocked) • 50/10/5W (VHF); 35/10/5W (UHF) • Detached control panel with extra-large backlit LCD and multi-function key display • Backlit microphone with alphanumeric input • Easy-to-use menu system • Advanced APRS-99 features • Built-in 1200/9600 bps TNC (AX.25) • DX cluster monitoring • Dual receive on same band for voice and data • 200 memory channels with 8-character alphanumeric • 2 call channels • 10 programmable memory scan banks • Built-in CTCSS and 1750 tone burst • Digital Code Squelch (DCS) • DTMF memory • Cross band and fixed band repeater operation • DCS code scan, tone, CTCSS scan • 10-channel program scan • Visual band scope • 13.8VDC @ 11.5A • 5.5" w x 2.4" h x 1.2" d, 0.4 lbs. (control), 5.5" w x 1.2" h x 7" d, 2.6 lbs. (main) **\$599.99**

Available Accessories:

MB201 Mobile bracket, MJ88 Modular/8-pin adapter, PG2N DC cable, PG4X 13' extension cable kit, PG5A Packet data cable, VS3 Voice synthesizer



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KENWOOD



TM-V7A 144/440MHz FM Dual Bander Easy-to-operate control panel with dual-mode, cool-blue, reversible LCD, offering positive and negative displays. Use with a PC, GPS, packet TNC or operate APRS position reporting and message system locally or nationally. Transmit: 144-148, 430-450MHz; receive: 118-174, 410-470MHz • 50/10/5W (VHF); 35/10/5W (UHF) • Data connector and separate automatic digital channel for APRS* • Detachable control panel • Dual receive on same band • Up to 280 multi-function memory channels (180 with 7-character alphanumeric) • Multi-scan functions • DTSS selective calling with page function • Built-in CTCSS enc/decoder • 1200/9600bps packet ready • Friendly operating menu • Automatic band change • Selectable frequency steps • S-meter squelch • Time-out timer • Audible frequency ID • Auto repeater offset (144MHz) • Auto power-off • Backlit multi-function mic with DTMF • 13.8VDC @ 10A • 5.5" w x 1.5" h x 7.4" d, 2.7 lbs.... **\$419.99**

Available Accessories:

DFK3C 9' cable kit, DFK4C 13' cable kit, DFK7C Deluxe 23' remote kit, MB201 Mobile bracket, MJ88 Modular/8-pin adapter, PG2N DC cable, PG4S PC interface cable, PG5A Packet data cable, VS3 Voice synthesizer

FREE ITEMS included with some radios.
See Price Guide for details.

MFJ MFJ ENTERPRISES, INC.



VHF DATA RADIOS

Don't tie up your expensive rig on a single packet channel, check out these low-cost MFJ Data Radios.

8621 PacketOnly™ 2m Transceiver Compatible with all TNCs with hardware DCDs and most TNCs with software DCDs • 1200/9600 baud • 5W output • Low current drain (15mA on receive and less than 1 amp on transmit) • 5" w x 5" d x 1.5" h • Crystals installed for 145.01MHz **\$139.99**

8621X2 PacketOnly™ 2m Transceiver Ready for APRS use. • Crystalled and aligned for 144.390MHz • 5W output **\$149.99**

Available Accessories:

4110 Portable AC power supply, 5100 Data radio cable (MFJ/TAPR), 5100X Data radio cable (PK232), 5100YH Data radio cable (KPC9612), 5100YV Data radio cable (KAM/KPC3), 5106 Open end (6-pin mini Kenwood/Yaesu)



LOW POWER SINGLE BAND SSB MOBILE TRANSCEIVERS

Easy to operate! No microprocessor – just turn on and tune in. • 20W PEP (Less on VHF models) – plus Constant Current™ syllabic speech processing for an added 4–6dB advantage to cut through noise, fading, and QRM. Includes a handheld dynamic mic that complements the speech processing. • Low drain – 3A from 12V supply or battery. • Low noise preamp and active double balanced mixer front end • Excellent selectivity – Sharp 2.3 kHz SSB crystal ladder filter reduces passband noise, fights QRM, and improves intelligibility • TVI protection (built-in 7 element lowpass filter) • Real S-meter: Position your beam with accuracy and give meaningful reports. Also, monitor speech processing level. • Agile tuning – reduction drive analog VFO lets you scan the band for signals quickly, then zero in smoothly • Amp jack • 2.5" h x 6.5" w x 6" d, 2lbs.

9402X 2M SSB Adventure Radio™, 7W.. **\$269.99**

9406X 6M SSB Adventure Radio™, 10W **\$249.99**

9410X 10M 20W Adventure Radio™ **\$249.99**

Available Accessories:

1770A 10M dipole for 9410X, 4110 Portable AC power supply, 4114 Rechargeable power pack, 416 CW adapter, 971 200W HF tuner (9410X only)



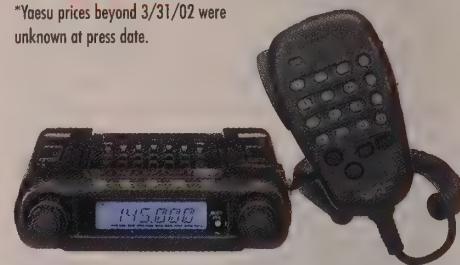
DUAL BAND MOBILES

RCI-2950DX 10/12 Meter Transceiver An old favorite updated with 12M band, improved receiver, double FET balanced mixer, surface mount components and improved display lighting. Covers 24.8-24.990 and 28.0-29.7MHz • 25W (SSB), 12W (CW), 10W (AM/FM) • Dual VFO • RIT • Noise blanker • Standard repeater offsets • Programmable tone • Large display with 4-step dimmer • Scanning • 10 programmable frequencies • Lockout..... **\$269.99**

RCI-2970DX Higher power version. 150W (SSB PEP), 50W (CW/FM/AM) **\$399.99**

YAESU

*Yaesu prices beyond 3/31/02 were unknown at press date.



SINGLE BAND MOBILES

FT-1500M 2M FM Transceiver Transmit: 144-148MHz, receive: 134-174MHz • 10 NOAA weather channels with "Weather Search" • 50/25/10/5W • Alphanumeric channel display • 130 multi-function memories with 6-character, alphanumeric labels • SmartSearch™ automatic memory loading • Priority channel • 16-digit, 8 memory DTMF autodialer • 50-tone CTCSS enc/decode • Bell alert CTCSS paging • Auto repeater shift • 1200/9600 baud compatible, rear panel data jack • Time-out timer • Auto power off • DTMF direct access mic • MIL-STD 810 D/E • DC voltage display • 13.8V DC @ 9.5A • 5" w x 1.4" h x 4.9" d, 2.2 lbs..... **\$139.99**

Available Accessories:

ADMS2F Programming software, MH36C8J Extra TTP microphone, MSL100 Mobile speaker, RA0242900 Mobile bracket, SP7 External speaker, T9021810 DC cable

RANGER
Communications, Inc.



SINGLE BAND MOBILE

RCI-5054DX All Mode 6 Meter Transceiver Covers 50-54MHz and rated at 10W CW/AM/FM, and 25W PEP SSB output. • 10 programmable memory frequencies • Programmable repeater offset (splits of up to 2MHz, with TX high or low) • ± 2.5kHz receiver clarifier • Noise blanker/ANL circuitry • Programmable receiver scanning for quick search of active frequencies • Includes up/down tuning hand microphone • Optional CTCSS tone • 12V DC • 2.4" h x 7.75" w x 10.75" d..... **\$319.99**

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NEW

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Manufacturer	ADI	ADI	ADI	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ICOM	ICOM	KENWOOD	KENWOOD	KENWOOD	MFJ
Model	AR-147+	AR-247	AR-447	DR-M06TH	DR-135T & TP	DR-235T	DR-435T	IC-2100H	IC-V8000	TM-261A	TM-331A	TM-461A	TM-541A	8621	8621X2	
Band	2 meters	220MHz	440MHz	6 meters	2 meters	220MHz	440MHz	2 meters	2 meters	2 meters	220MHz	440MHz	1.2GHz	2 meters	2 meters	
Tx Range (MHz)	144-148	222-225	430-450	50-54	144-148	222-224	430-449	144-148	144-148	144-148	222-225	438-450	1240-1300	145.01	144.39	
Rx Range (MHz) ⁽¹⁾	118-171	216-229	400-470	40-60 ⁽¹⁾	118-174	216-279	350-511	136-174	136-174	118-174	222-225	400-470	1240-1300	145.01	144.39	
Aircraft Rx	Yes	N/A	N/A	N/A	Yes	No	No	No	No	No	No	Yes	No	No	No	
Power Output	60/15/5W	30/15/5W	35/10/5W	20/1W	50/10/5W	25/10/5W	35/10/5W	50/10/5W	75/25/10/5W	50/10/5W	25/10/5W	35/10/5W	10W	5W	5W	
TTP Microphone	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	
Tone Encode	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes/DCS	Yes	Yes	Yes	Yes	No	No	
Tone Decode	Yes/DCS	Yes/DCS	Yes/DCS	EJ-20U	Yes	Yes	Yes	Yes	Yes/DCS	TSU-8	KQT-8	TSU-8	KQT-8	No	No	
Memories	80	80	80	100	100	100	100	113	207	62	20	62	20	0	0	
Alphanumeric	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	No	
PC Programmable	Yes	Yes	Yes	N/A	No	No	No	Yes	Yes	No	No	No	No	No	No	
13.8V DC@	12A	8A	10A	5A	11A	8A	10A	12A	15A	11A	6.5A	10A	6A	>1A	>1A	
Antenna Conn	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239	Type-N	SO-239	SO-239	
Size (h/w/d, in.)	1.5/5.5/6.5	1.5/5.5/6.3	1.5/5.5/6.3	1.6/5.4/5	1.6/5.6/6.9	1.6/5.6/6.9	1.6/5.6/6.9	1.6/5.5/7.1	2.0/5.9/5.9	1.6/5.5/6.3	1.7/5.5/6.6	1.7/5.5/6.6	1.6/5.5/6.3	1.5/5/5	1.5/5/5	
Weight (lbs.)	2.65	2.65	2.65	1.5	2.3	2.3	2.3	2.5	2.22	2.2	2.65	2.2	2.4	0.8	0.8	

* Removable control head

- (1) Requires keyboard modification
- (2) Expanded memory requires optional EL-19U
- (3) 2 Piece configuration only
- (4) 2M/220MHz Transceiver
- (5) All models are Cellular Blocked
- (6) AM aircraft receive mode
- (7) Does not include projections (knobs, antenna jacks, etc.)
- (8) Manufacturer only guarantees specs within the ham bands
- (9) Requires internal modification (available on request)
- (10) There are gaps in non-voice or data portions in certain bands
- (11) Control head separate from body

All radios are cell blocked

FREE ITEMS included with some radios.
See Price Guide for details.

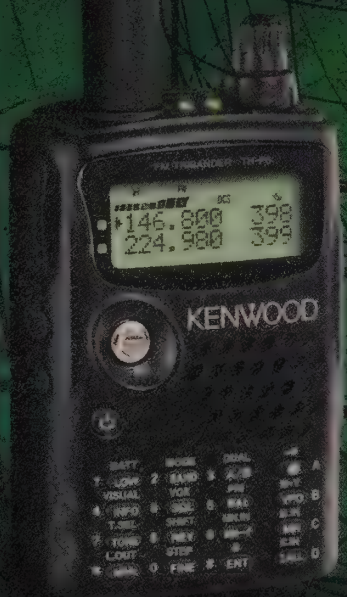
Manufacturer	MFJ	MFJ	RANGER	YAESU	YAESU	YAESU	YAESU
Model	9402X	9406X	9410X	FT-1500M	FT-2600M	FT-3000M	FT-3000M
Band	2 meters	6 meters	6 meters	2 meters	2 meters	2 meters	2 meters
Tx Range (MHz)	144-144.3	50-50.3	28.3-28.6	144-148	144-148	144-148	144-148
Rx Range (MHz) ⁽¹⁾	144-144.3	50-50.3	28.3-28.6	137-174	136-174	110-180, 300-520, 800-999	110-180, 300-520, 800-999
Aircraft Rx	No	No	No	No	No	Yes	Yes
Power Output	7W SSB	10W SSB	20W SSB	50/25/10/5W	60W	70/50/25/10W	70/50/25/10W
TTP Microphone	No	No	No	Yes	Yes	Yes	Yes
Tone Encode	No	No	No	Yes	Yes	Yes	Yes
Tone Decode	No	No	No	Yes	Yes/DCS	FIS-17A	FIS-17A
Memories	0	0	10	130	170	81	81
Alphanumeric	No	No	No	Yes	Yes	Yes	Yes
PC Programmable	No	No	No	Yes	Yes	Yes	Yes
13.8V DC@	2A	3A	7A	8A	10A	15A	15A
Antenna Conn	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239
Size (h/w/d, in.)	2.5/6.5/6	2.5/6.5/6	2.4/7.5/10.75	1.4/5/5	1.6/6.3/6.3	1.5/5.5/7	1.5/5.5/7
Weight (lbs.)	2	2	1	2.2	2.9	2.75	2.75

DUAL BAND MODELS TRANSCEIVERS

Manufacturer	ALINCO	ICOM*	ICOM ⁽¹⁾	KENWOOD ⁽¹⁾	KENWOOD*	KENWOOD*	KENWOOD*	KENWOOD	KENWOOD*	KENWOOD	RANGER	RANGER	YAESU	YAESU*
Model	DR-605TQ	IC-207H	IC-2800H	TM-D700A	TM-6707A	TM-V7A	TM-642AD ⁽⁴⁾	TM-742AD	TM-742AD	TM-742AD	RC12970DX	RC12950DX	FT-7100M	FT-90R
Tx Range ^(5,6)	144-148	144-148	144-148	144-148	144-148	144-148	144-148	144-148	144-148	144-148	24.8-24.99	24.8-24.99	144-148	144-148
Rx Range (MHz) ^(5,6)	136-174	118-174 ⁽⁶⁾	118-174 ⁽⁶⁾	118-174 (A band) ⁽¹⁰⁾	118-174	118-174	118-174	118-174	118-174	118-174	28-29.6999	28-29.6999	430-450	430-450
Single or Dual Rx	Dual	Single	Dual	Dual	Single	Dual	Dual	Dual	Dual	Dual	Single	Single	Dual	Single
Power (2M)	50/20/10/5W	50/20/10/5W	50/20/10/5W	50/10/5W	50/10/5W	50/10/5W	50/10/5W	50/10/5W	50/10/5W	50/10/5W	150W SSB	150W SSB	50/20/10/5W	50/20/10/5W
Power (440MHz)	35/20/10/5W	35/20/10/5W	35/20/10/5W	35/10/5W	35/10/5W	35/10/5W	35/10/5W	35/10/5W	35/10/5W	35/10/5W	50W CW/FM/AM	50W CW/FM/AM	35/20/10/5W	35/20/10/5W
Memories	100	182	232	200	180	280	101	101	101	101	10	10	262	186
Tone Encode	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Tone Decode	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
Duplexer	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Optional TSU-7	Optional TSU-7	Optional TSU-7	No	No	Yes	DCS
Cross-Band Rpt.	Yes	No	Yes	Yes	No	Yes	Yes ⁽⁸⁾	Yes ⁽⁸⁾	Yes ⁽⁸⁾	Yes ⁽⁸⁾	No	No	No	No
Alphanumeric	No	No	Yes	Yes	Yes	Yes	No	No	No	No	No	No	Yes	Yes
PC Programmable	No	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	Yes
9600b Compatible	Yes	Yes	Yes	Yes	Yes	Yes	Yes ⁽⁹⁾	Yes ⁽⁹⁾	Yes ⁽⁹⁾	Yes ⁽⁹⁾	No	No	Yes	Yes
Separateable	No	Yes	Yes ⁽³⁾	Yes ⁽³⁾	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes
Height (in.) (Head)	1.6	1.6	1.6 (2.8)	1.6 (2.4)	1.6	1.6	1.9	1.9	1.9	1.9	3.875	3.875	1.9	1.2
Width (in.)	5.5	5.5	5.5 (5.5)	5.5 (5.5)	5.5	5.5	5.9	5.9	5.9	5.9	7.75	7.75	5.8	3.9
Depth (in.) ⁽¹⁾	6.9	7.3	6.5 (1.3)	7.7 (1.3)	7.4	7.4	6.9	6.9	6.9	6.9	9.25	9.25	6.9	5.4
Weight (lbs)	2.4	2.6	2.5 (0.6)	2.6 (6.3)	2.7	2.7	3.9	3.9	3.9	3.9	7.4	7.4	2.2	1.4

AIRWAVE SUPERIORITY

Never before has a compact HT offered as many features, and such high powered performance as the TH-F6A. Arm yourself with one today and gain your own airwave superiority.



- Triband (144/220/440 MHz)
- Receives 2 frequencies simultaneously even on the same band
- 0.1-1300MHz high-frequency range RX (B band)¹
- FM/FM-W/FM-N/AM plus SSB/CW receive
- Bar antenna for receiving AM broadcasts
- Special weather channel RX mode
- 435 memory channels, multiple scan functions
- 7.4V 1550mAh lithium-ion battery (std.) for high output² and extended operation
- 16-key pad plus multi-scroll key for easy operation
- Built-in charging circuitry for battery recharge while the unit operates from a DC supply
- Tough construction: meets MIL-STD 810 C/D/E standards for resistance to vibration, shock, humidity and light rain
- Large frequency display for single-band use
- Automatic simplex checker
- Wireless remote control function
- Battery indicator • Internal VOX • MCP software

Note that certain frequencies are unavailable. ²5W output

¹Specifications subject to change without notice.

NEW
TH-F6A
TRIBANDER

KENWOOD
COMMUNICATIONS CORPORATION

AMATEUR RADIO PRODUCTS GROUP
3975 Johns Creek Court, Suwanee, GA 30024
P.O. Box 22745, Long Beach, CA 90801-5745, U.S.A.
Customer Support: (310) 633-4200 Fax: (310) 537-8235

02ARD-2161 #022502



ISO 9001
JQA-1205

Communications Equipment Division
Kenwood Corporation
ISO9001 certification

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Kenwood Information
<http://ftp.kenwood.net>

*Yaesu prices beyond 3/31/02 were unknown at press date.



FT-2600M Heavy-duty 2M FM Transceiver
Transmit: 144-148MHz, receive: 134-174MHz
• Selectable channel steps • Advanced track tuning
• 60/25/10/5W • Alphanumeric channel display
• Programming menu holds 33 operational settings
• 175 multi-function memories with 8-character alphanumeric labels • High-speed, multifunction scanning • SmartSearch™ automatic memory loading • Auto Range Transpond System™ • CTCSS and DCS encode/decode • Automatic repeater shift (ARS) • 1200/9600 baud compatible, rear panel data jack • Time-out-timer • Auto power-off • Back-lit DTMF direct access microphone provides user-programmable function keys • 8-memory, 16-digit DTMF autodialer • Front mounted speaker • PC programmable with optional software • DC voltage display • MIL-STD 810 rating • 13.8V DC @ 9.5A • 6.3" w x 1.6" h x 6.3" d, 2.9 lbs **\$169.99**

Available Accessories:

ADMS2E Programming software, MLS100 Mobile speaker, MMB48 Mobile bracket, SP7 Ext. spkr, T9021810 DC cable



FT-3000M High-Powered 2M FM Transceiver
Transmit: 144-148MHz • Wideband receive: 110-180, 300-520, 800-824, 849-869 and 894-999MHz (cell blocked) • Sub-receiver (split and full duplex cross band, dual watch) • 70/50/25/10W (twin cooling fans) • Programming menu holds over 50 operational settings • 81 memories • Programmable memory scanning and tuning, SmartSearch™ • Large alphanumeric LCD display • CTCSS/DCS encode • Digital coded squelch (DCS) • Spectrum scope • ARTS™ • 1200/9600 baud compatible ready • Auto repeater shift • Adjustable display brightness • Time-out timer • Auto power-off • Back-lit DTMF direct-access mic (user programmable function keys) • 13.8V DC @ 15A • MIL-STD 810 rating • 5.5" w x 1.6" h x 7.1" d, 2.8 lbs **\$299.99**

Available Accessories:

ADMS2D Programming software, CT39 Packet cable, DV54 Voice recording module, FTS17A Decoder, MLS100 Mobile speaker, MMB36 Mobile bracket, MMB60 Quick release mobile mount, SP7 External speaker, T9021810 DC cable

Used & Demo
Equipment lists

Updated regularly on the web.
Check them out and order **On-line**



DUAL BAND MOBILES

FT-90R 2M/440MHz FM Transceiver Micro-sized with built-in cooling fan • TX: (2M) 144-148MHz; (440MHz) 430-450MHz • Wideband rx: 100-230, 300-530, 810-999.975MHz (cell blocked), includes AM aircraft • 50/20/10/5W (2M), 35/20/10/5W (440 MHz) • 186 memories with alphanumeric labels • 5 scanning modes • Built-in CTCSS/DCS enc/dec • ARTS™ • 1200/9600bps compatible • Auto repeater shift • Time-out-timer • Ultra-compact remote-head capability • DTMF direct access mic with user-programmable keys • 8-memory, 16-digit DTMF autodialer • Memory cloning • 13.8V DC @ 9.5A • 3.9" w x 1.2" h x 5.4" d, 1.42 lbs **\$319.99**

Available Accessories:

ADMS2E Programming software, MEK2 Mic extension kit, MLS100 Mobile speaker, RA0131900 Mobile bracket, SP7 External speaker, T9021810 DC cable, YSK90 Remote separation kit



FT-7100M Dualband Mobile The ruggedness and operating ease of single band mobiles, and the convenience of remote head mounting capability in a 144/430MHz dualband design. • 144-148, 430-450MHz tx; 108-137MHz (AM), 137-180MHz, 320-480MHz, 810-999.99MHz (cell blocked) rx • Dual receive: VHF/UHF, VHF/VHF, UHF/VHF • Selectable channel steps • 50W (144MHz), 35W (430MHz) power output • Efficient cooling system: Direct-flow heat-sink and thermostatically-controlled fan • 262 memory channels (120 regular, 5 pairs of band limit memories, and one "HOME" channel on each band) • Alphanumeric memory labels (6 characters on lower display field, 5 characters on upper) • Smart-Search™ auto memory loading system • 50 CTCSS encode/decode tones and 104 DCS encode/decode codes • CTCSS/DCS search • Auto-Range Transponder System • Band, band-limit, and memory scanning • 3 priority channel modes (VFO, memory, and home channel priority) • RF squelch – opens at user-defined signal level • Auto power-off • 1200/9600bps packet compatible • 5.8" w x 1.9" h x 6.9" d • 0.9" x 2.3" LCD display **\$299.99**

Available Accessories:

ADMS2G Programming software, AD3 100W 2M/440 duplexer, CT39 Packet cable, MEK2 Mic extension kit, MLS100 Mobile speaker, MMB60 Quick release mobile mount, MMB62 Remote control panel bracket, SP7 External speaker, YSK7100 Remote separation kit

FREE ITEMS included with some radios.
See Price Guide for details.

MIRAGE



Three models all measure RMS, peak forward and reverse power and SWR, directly without charts or calculations. Negligible insertion loss. Remotable coupler, SO-239 connectors. Requires 9V battery, or AC adapter. Low battery indicator. 5.75" x 4.5" x 5.75" d, 3.5 lbs.

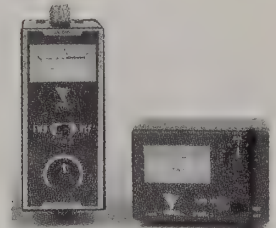
MP-1 1.8-30MHz; 25, 200, 2KW PEP **\$219.99**
MP-2 50-200MHz; 50, 500, 1.5KW PEP **\$219.99**
MP-3 420-450MHz; 5, 50, 150W PEP..... **\$249.99**

YAESU



YS-60 Monitors average (CW) and peak (SSB) transmitter power and VSWR. Covers 1.6 to 60MHz, up to 2KW. Ranges: 0/200 and 2000W PEP. 50Ω impd., SO-239 connectors. Requires 12V DC for lamps and internal circuits. 4.75" w x 2.75" h x 3.5" d, 1.5 lbs **\$129.99**

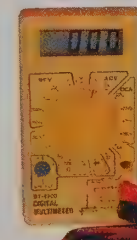
YS-500 Similar to YS-60, but covers 140–525MHz and has 4/20 and 200W PEP ranges..... **\$109.99**



LOW COST METERS

SWR-1 Field Strength or SWR Meter (left) Range: 3.5-150MHz, Impedance: 52Ω, SWR: 1:1-3:1, Accuracy: 5%, Meter sensitivity: 300uA. 5" RF pick-up antenna. 6" h x 2" w x 2.875" d, 14 oz. .. **\$19.99**

SWR-3 SWR Meter (right) Range: 1.7-30MHz • Impedance: 50-52Ω • SWR: 1:1-3:1 • Accuracy: 5% • Sensitivity: 300uA • 2.5"x3.5"x3", 6oz..... **\$14.99**



370052 Digital Multi-Meter 3.5 digit LCD, 0.5" h with polarity • AC volts, 5 ranges: 200mV-600V • DC volts: 200V and 600V • DC current (5 ranges): 200uA-10A • Resistance (5 ranges): 200Ω-20kΩ • Diode test: forward voltage drop • Transistor test: shows hFE value • Comes with 100-hour, 9V battery and plug-in test leads • 2.76" w x 4.96" h x 0.94" d, 6oz **\$19.99**

Coaxial Dynamics



ELEMENTS
WORK IN
100 METERS

RF DIRECTIONAL WATTMETERS

81000-A RF Directional Wattmeter Accurate RF Power measurement in 50Ω coaxial systems. Uses an internal line section and "Quick Match" plug in elements in the range of 0.1–10,000 watts full scale, and from 0.45 to 2300MHz.

Simply plug in the appropriate measuring element and select forward or reflected direction. Measured average RF power is indicated directly on the large 4.5" "taut-band" meter with three scale display. The meter is also mirrored and shock mounted to provide the most reliable and accurate readings.

Strong shock-proof housing. With SO-239 connectors (Type-N female Special Order) **\$260.99**

83000-A RF Peak Reading Wattmeter Similar in appearance and operation to the standard Model 81000-A wattmeter. Contains an amplifier which allows measuring of both Average and Peak Envelope Power (PEP) with the flip of a switch. Internal 9V battery is required and supplied for peak reading mode..... **\$393.99**

STANDARD PLUG-IN ELEMENTS

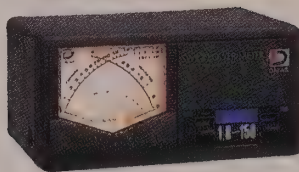
82004 2 to 30MHz; 50W	\$87.99
82005 2 to 30MHz; 100W	87.99
82006 2 to 30MHz; 250W	87.99
82007 2 to 30MHz; 500W	87.99
82008 2 to 30MHz; 1000W	87.99
82009 2 to 30MHz; 2500W	125.99
82010 2 to 30MHz; 5000W.....	125.99
82013 25 to 60MHz; 10W	71.99
82014 25 to 60MHz; 25W	71.99
82015 25 to 60MHz; 50W	71.99
82016 25 to 60MHz; 100W	71.99
82029 100 to 250MHz; 10W	71.99
82031 100 to 250MHz; 50W	71.99
82033 100 to 250MHz; 250W	71.99
82046 400 to 1000MHz; 10W	71.99
82048 400 to 1000MHz; 50W	71.99
82049 400 to 1000MHz; 100W	71.99

ACCESSORIES

88000 Type-N female "QM" connector	\$9.99
88800 Carrying case	55.99

DAIWA

industry co. ltd.



CROSS NEEDLE SWR/POWER METERS

CN-101 Covers 1.8-150MHz, rated at 1500W from 1.8-60MHz and up to 1000W at 144MHz. Shows Forward and Reverse power and VSWR simultaneously. Three power ranges: 15/150/1500W (RMS or PEP); ±10% of full scale accuracy. SWR detection sensitivity: 4W minimum. 50Ω impedance, SO-239 connectors. 6"w x 3"h x 3.875"d, 1.5 lbs ... **\$99.99**

CN-103M Same as CN-101, but covers 140-525MHz and rated at 200W. Two power ranges: 20/200W (RMS or PEP) **\$99.99**



PROFESSIONAL SERIES

The CN-801 series of cross needle meters features the most accurate meter and largest meter face in the Daiwa line.

The large, easy-to-read meter has .5W increments and is lighted. This is truly a professional quality meter. • 5W SWR detection sensitivity (min.) • 50Ω impedance • 6"l x 4"h x 4.5"w • 2.2lbs

CN-801H 1.8-200MHz, 20/200/2kW **\$149.99**

CN-801V 140-525MHz, 20/200W **\$154.99**

CN-801S 900-2500MHz, 2/20W, Type-N connectors..... Special Order

VELLEMAN

DVM-810 Digital Multimeter Compact design makes this meter a perfect fit for any toolbox or even shirt pocket! It features multiple functions and an easy-to-read LCD display. • 3.5 digits • 19 ranges • Measures voltage, current, resistance, transistor and diode • Battery included..... **\$19.99**



Look For This

NEW

& Check Out AES' Latest Additions.

Bel MERIT

DX-405 Multi-function Multi-meter 10 functions/39 ranges • 3.5 digit, manual ranging • Frequency meter, to 20MHz • 0.25% DCV basic accuracy • Measure voltage, current, resistance & diode • Continuous beeper • Data hold • Auto power off • Input warning • Tilt stand with holder • Holster • 4"w x 7.5"h x 1.5"d, 1.5 lb..... **\$69.99**



DM-80 Pocket Digital Multimeter 3200 count • 32 segment bargraph • Auto/manual ranging • Auto off • Data hold • Range • Voltage, AC/DC 450V • Current, AC/DC 300mA • Resistance, 30MΩ • Diode test • Continuity beeper • Over range indication • Low battery mark auto polarity • Carrying case included • 2"w x 4.1"h x 0.4"d, 3.2 oz **\$34.99**

Service Questions?

414-358-4087
Milwaukee, WI

DIAMOND ANTENNA



SWR/POWER METERS

(left) Five models measure power and SWR with 5–10% of F.S. accuracy. Illuminated meter, sensor switch, LED indicator. Power ratings for intermittent operation. For continuous, ratings vary with frequency. SO-239 connectors on all except SX-1000 (type-N). 6"w x 2.5"h x 4"d, 2 lbs.

SX-100 1.6-60MHz, 30/300/3kW PEP... **\$134.99**

SX-200 1.8-200MHz, 5/20/200W PEP..... **\$94.99**

SX-400 140-525MHz, 5/20/200W PEP.. **\$114.99**

SX-600 Dual band, 1.8-160MHz and 140-525 MHz, 5/20/200W PEP ranges..... **\$169.99**

SX-1000 Dual band, 1.8-160MHz and 430-1300MHz, 5/20/200W PEP ranges..... **\$214.99**

CROSS-NEEDLE SWR/POWER METERS

(right) Indicate forward/reflected power and SWR simultaneously. 50Ω impedance, SO-239 connectors, 10% F.S. accuracy, 3.3"w x 3.4"h x 3.7"d, 9 oz.

SX-20C 3.5-30/50-54 and 130-150MHz ranges; 30/300W. Needs 5W minimum for VSWR. **\$89.99**

SX-40C 144-470MHz (220MHz with correction factor); 15/150W (3W minimum power).... **\$79.99**

MFJ

1.8-170 MHz



259B \$239⁹⁹

MFJ SWR Analyzers

... for Serious Antenna Performance!

You've spent a lot of time and money on your antenna system, so why not make sure it's giving you top performance? An MFJ SWR Analyzer will do that – plus, it will make you very popular because all of your Ham buddies are going to want to borrow it!

The MFJ 259B and 269 are complete Ham radio test stations, including – Frequency Counter, RF signal generator, SWR Analyzer, RF Resistance and Reactance Analyzer, Coax Analyzer, Capacitance and Inductance Meter & more!

The 259B and 269 can take the frustration out of tuning your antennas for maximum performance. Gone are the days of using a conventional, sometimes questionable, SWR meter. You will no longer have to drag your rig (RF source) out into the yard. No more running in and out of the house or up and down the tower to make those seemingly endless readings and adjustments.

The 259B and 269 are self-contained and fully portable units, with built-in battery power and RF source so you can take it right to the antenna. Take one reading to get a complete picture of your antenna, and make tuning adjustments on the spot.

Operation is simple, just connect the feed line, set the bandswitch and tune the dial – just like a transceiver. All information is clearly displayed instantly on the large, easy-to-read, two-line LCD screen and side-by-side meters.

When tuning transmission lines or making up phasing harnesses for stacking antennas, you can quickly determine exact 1/4 or 1/2 wavelengths. You can also determine the velocity factor, coax cable loss, length of coax and distance to a short or open in coaxial cable.

Read SWR, return loss and reflection coefficient at any frequency, simultaneously, or inductance and capacitance at RF frequencies at a glance.

The 259B and 269 operate on 110V with the 1312 adapter (\$14.99) or on 10 "AA" internal batteries, not included. For rechargeables, there is a built-in charger, MFJ's 1312 required.

All metal cabinet, 6-3/4" h x 4" w x 2" d.

Overall, here's what you can do...

- Read antenna SWR & Complex Impedance from 1.8-170MHz with the 259B and additionally 415-470MHz with the 269. Complex Impedance can also be read as series resistance and reactance (R+jX) or as magnitude (Z) and phase (degrees).
- Find true resonant frequency of antenna.
- Trim dipoles and verticals to resonance.
- Adjust your Yagi, quad, loop and others. Change antenna spacing and height – watch SWR, resistance and reactance change instantly.
- Perfectly tune critical HF mobile antennas in seconds for top performance – without subjecting your transceiver to high SWR.
- Measure your antenna's 2:1 SWR bandwidth on one band, or analyze multiband performance over the entire spectrum.
- Check SWR outside the ham bands without violating FCC rules.
- Adjust your antenna tuner for a perfect match without creating QRM.
- Take the guesswork out of building and adjusting phasing lines, matching networks and baluns.
- Accurately measure distance to a short or open in a failed coaxial transmission line. Measure the length of a roll of coax and also determine loss, velocity factor and impedance.
- Measure frequency with built-in counter
- Frequency counter function
- Troubleshoot and measure resonant frequency and approximate Q of traps, stubs, transmission lines, RF chokes, tuned circuits and baluns.

269 SWR Analyzer

E-X-P-A-N-D-E-D Frequency Coverage & Added Features

1.8–170 MHz plus 415-470 MHz

Looks nearly identical to, and has all the features of the 259B PLUS...

- Covers 1.8 to 170 MHz plus 415 to 470 MHz
- Built-in CoaxCalculator™ – calculates coax length in feet given coax length in electrical degrees and vice versa, and any velocity factor (great for building matching sections and phasing lines for multiple antennas).
- New 12-bit A/D converter gives much better accuracy and resolution than common 8-bit A/D converters.

New 1.8 to 170 MHz Range features:

- Read Complex Impedance as series equivalent resistance and reactance (R+jXs) or as magnitude (Z) and phase (degrees). Also reads parallel equivalent resistance and reactance (Rp+jXp).
- Measure SWR and loss of coax with any characteristic impedance from 10 to over 600Ω, including 50, 51, 52, 53, 73, 75, 93, 95, 300, 450Ω.

415 to 470 MHz Range features:

- Read SWR, return loss, reflection coefficient simultaneously, and cable loss in dB and match efficiency.
- Has LCD logarithmic SWR bargraph and SWR meter for quick tuning.

269 \$319⁹⁹

www.mfjenterprises.com

SWR Analyzer Accessories

- 29C Carrying Case** – Tote your 259B anywhere with this custom carrying case. Wear it around your waist, over your shoulder, or clip it onto the tower while you work. Has back pocket for carrying dip coils and coax adapters. Special foam filled fabric cushions blows and protects unit from wear and tear. **\$24.99.**
- 39C Carrying Case** – Fits the 269 **\$24.99.**
- 66 Dip Meter Adapter** – For grid dip operation. Set of two plug-in coils covers 1.8-170MHz range **\$19.99.**
- 98 Accessory Pack** – Includes 39C case, 66 dip adapter and 1315 AC adapter. **\$54.99**
- 99 Accessory Pack** – Includes 29C case, 66 dip coils and 1315 AC adapter. **\$54.99**
- 99B Accessory Pack** – Includes 10 "AA" NiMH batteries, 29C case, 66 dip coils and 1315 AC adapter. **\$77.99**
- 99C Accessory Pack** – Includes 10 "AA" NiMH batteries and 1315 AC adapter. **\$34.99**
- 731 Tunable Measurement Filter** – Use with 259B or 269 for accurate measurements in the 1.8-30 MHz range while in the presence of strong RF fields from nearby broadcast stations or other RF emitters **\$89.99**

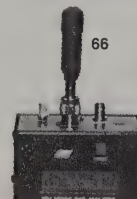


92AA01
1300mAh AA Ni-MH Battery...ea. **\$2.99**

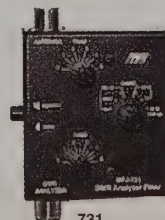
92AA10
10 Pack **\$24.99**



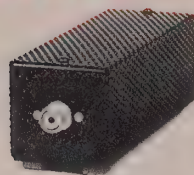
29C / 39C



66



731



DUMMY LOADS

250 Versaload (right) 50Ω oil-filled dummy load providing low VSWR to 400 MHz. Rated at 1 KW CW or 2KW PEP for 10 min., with 50% power rating for 20 minutes and 200W CW (400W PEP) continuous. 7.25" h x 6.625" diameter **With oil \$59.99**

250X Same as above, but requires oil..... **39.99**

Dry Loads (left) Air cooled, non-inductive 50Ω resistor mounted in a metal housing. Full rated load for 30 seconds with derating curve to 5 minutes.

260C (HF/VHF) Rated at 300W, 1:1 SWR to 30MHz, .5:1 to 650MHz. 2.5" x 2.5" x 7" ... **\$34.99**

260CN With type "N" connectors..... **39.99**

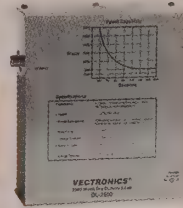
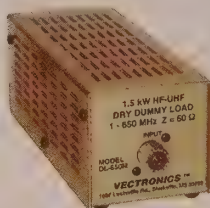
264 (UHF) Performs from 1.3 to 650MHz, usable to 750MHz. Rated at 1.5KW for 10-seconds and 100W for 10-minutes. 3" w x 3" h x 9" d..... **\$69.99**

264N With type "N" connectors..... **79.99**

VECTRONICS

DUMMY LOADS

DL-300M Dry Dummy Load Simulates an accurate 50Ω antenna up to 150MHz. Test or tune up your transmitter without radiating a signal on the air. Power handling curve rated at 300W for 15 seconds, to 100W for 40 seconds. VSWR <1.3:1 at 150MHz. 5" h x 2" d x 2.875" h, 8 oz..... **\$44.99**



DL-650M Dry Dummy Load (left) Good all the way up to 650MHz. Power handling curve is rated at 1500W for 10-seconds, down to 100W for 10 minutes. VSWR <1.3:1 at 500MHz..... **\$74.99**

DL-2500 High-Power Dry Load (right) A fan cooled heavy-duty load for up to 150MHz. Power handling curve rated at 2500W for 1 minute, down to 500W for 10 minutes..... **\$179.99**

SWR/POWER METERS

PM-30HF Similar to pic. RMS or PEP forward and reflected power and SWR simultaneously. Lighted cross-needle meter. Covers 1.8-60MHz, 300/3000W ranges. 5.313" w x 3.5" h x 5.75" d, 1.2 lbs.. **\$79.99**

PM-30UV (shown) Same features as the PM-30HF, but covers 144, 220 and 450MHz bands.... **\$89.99**



Look For This

NEW

& Check Out AES' Latest Additions.

Daiwa CN-801S, CN-103N, CS-201GIH and SS-330W, below, are Special Order



Accurate Measurements

NO EXCUSES.

Professionally Engineered "Cross Needle" Meters

Forward power, reflected power and SWR are displayed simultaneously! No calibration required! Daiwa high quality instruments make the tedious measuring of SWR and Power during antenna tests, transmitter matching and tuning a very easy task.



Professional Series

Accurate and dependable featuring a large, easy-to-read lighted meter. 13.8VDC jack on rear panel. 6" l x 4" h x 4" d (approx.)

CN-801H

Frequency Range: 1.8-200MHz

Forward Power Ranges: 20/200/2000W

CN-801V

Frequency Range: 140-525MHz

Forward Power Ranges: 20/200W

CN-801S

Frequency Range: 900-2500MHz

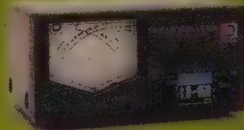
Forward Power Ranges: 2/20W



(714) 630-4541 • (800) 962-2611

(714) 630-7024 fax

www.natcommgroup.com



Economy Series

Accurate and dependable bench meters at an economy price.

Lighted, 13.8VDC jack on rear panel. 6" l x 3" h x 4" d (approx.)

CN-101

Frequency Range: 1.8-150MHz

Forward Power Ranges:

15/150/1500W

CN-103M

Frequency Ranges: 140-525MHz

Forward Power Ranges: 20/200W

CN-103N (N-Type Conns)



NEW! POWER SUPPLY

SS-330W

Convenient, lightweight 30 amp switching supply.

30 amps continuous

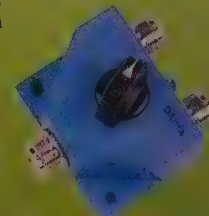
Dual lighted meters

Adjustable voltage (5-15V)

Built-in fan

Weights less than 5 lbs.

Carrying handle



Coax Switches

Patented design and excellent RF characteristics. Automatic grounding of unused circuits with heavy-duty die cast cavity construction.

CS-201

2-Position 600MHz Switch

Max. Power: 2.5kW PEP/1kW CW

Conns: SO-239

CS-201GIH

2-Position 2GHz Switch

Max. Power: 1.5kW CW

Conns: Gold plated N-Type

SWR/POWER METERS

864 (bottom) Covers 1.8-60MHz, 144MHz and 440MHz bands. Dual sensors, connect an HF and VHF/UHF rig at the same time. Monitor SWR and power of either. Lighted cross-needle meter indicates 30/300W forward and 6/60W reflected power simultaneously. Uses 12V DC for meter light. 7.25" w x 2.5" h x 2.25" d **\$84.99**

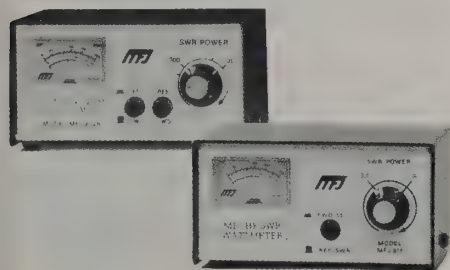
862 (middle) Similar to 864, but for 144MHz, 220 MHz and 440MHz. Ranges: 30/300W forward and 6/60W reflected. 5.75" w x 2.5" h x 2.25" d. **\$54.99**

860 (top) Similar to the 864, but covers HF - 1.8 to 60MHz. Ranges: 30/300 watts forward and 6/60 watts reflected. 4.5" w x 2.25" h x 3" d **\$44.99**



815B Features large 3" cross-needle meter. Gives accurate SWR and peak or average power readings from 1.8-60MHz. Ranges: 200/ 2000W forward and 50/500W reflected. Push buttons 12V DC for meter light. 7.25" w x 2.5" h x 2.25" d. **\$79.99**

817 Looks & features similar to 815B but covers 144 & 440MHz bands. Ranges: 200/20 forward and 50/5W reflected. 7.25" w x 2.5" h x 2.25" d. **\$89.99**



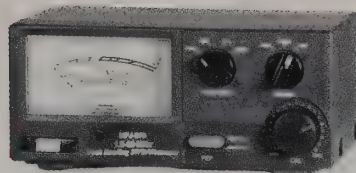
812B (top/left) Indicates forward and reflected power on 2M and 220MHz and SWR 14-220MHz, plus field-strength 1-220MHz. Ranges: 30/300W. Measures 4.5" w x 2.25" h x 3" d **\$34.99**

816 Toroidal Meter (bottom/right) Indicates forward and reflected power from 1.8-30MHz. Ranges: 30/300W. 4.5" w x 2.25" h x 3" d **\$34.99**



and, SO-239 connectors. Insertion loss is 0.3 dB or less. Measures only 3.75" w x 3" h x 1.25" d. Easy to read multi-colored meter. Great to take along for those portable, HT or mobile rigs **\$69.99**

844 VHF/UHF SWR/Power Meter Covers 144 and 440MHz and handles 200W. Measures SWR and Power in 3 ranges: 15, 60, and 200W. 50Ω impedance, SO-239 connectors. Insertion loss is 0.3 dB or less. Measures only 3.75" w x 3" h x 1.25" d. Easy to read multi-colored meter. Great to take along for those portable, HT or mobile rigs **\$69.99**



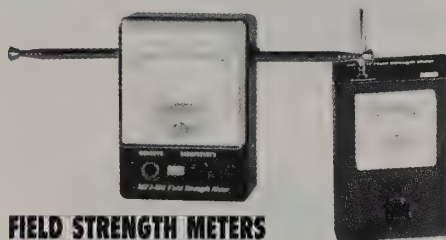
GrandMaster™ 3.25" x 1.25" meter, forward/reflected. 3 ranges. 13.8V/110V. 7.5" w x 3.125" h x 4.25" d.

870 (HF range) Covers 1.6 to 60MHz. Power ranges: 30/300/3000W **\$124.99**

872 (HF/VHF range) Covers 1.8 to 200MHz. Power ranges: 5/20/200W **\$94.99**

873 (VHF/UHF range) Covers 125 to 525MHz. Power ranges: 5/20/200W **\$104.99**

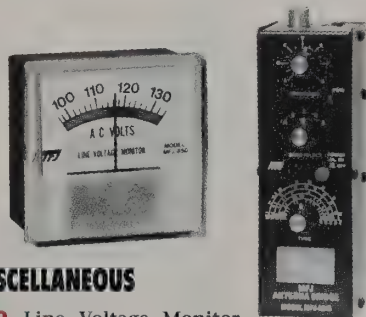
874 (HF/VHF/UHF range) Covers 1.8 to 525MHz. Power ranges: 5/20/200W **\$159.99**



FIELD STRENGTH METERS

801 Super Compact Field Strength Meter (right) You can read relative field strength from your antenna, measure antenna performance and discover how strong your antenna field is. Its compact size fits in the palm of your hand, only 2.375" w x 3.625" h x 1" d. Telescopic whip included ... **\$19.99**

802 Bipolar Field Strength Meter (left) Dual whips are included, 2.375" w x 4" h x 1.5" d **\$39.99**



MISCELLANEOUS

850 Line Voltage Monitor (left) Plug into any 110V AC outlet and monitor the line voltage on an expanded/colored 95 to 135V AC scale. Measures 2.25" w x 2.25" h x 1.5" d **\$19.99**

204B Antenna Bridge (right) Quickly optimize 1.8-30MHz antennas for peak performance. Portable - take it to an antenna site. Determine if an antenna is too long or short, measure resonate frequency and resistance to 500Ω. Built-in resistance bridge, null meter and tunable oscillator driver. Requires 9V battery. 4" w x 2" w x 2" d **\$79.99**



224 2M FM SignalAnalyzer™ Measure signal strength over 60dB range, antenna gain, beamwidth, front-to-back ratio, sidelobes, feed-line loss. Check and set FM deviation. Plot field strength patterns, position antenna, measure preamp gain, tune transmitters and filters. Use scope to analyze modulation wave forms, measure audio distortion, noise and peak deviation. Covers 143.5-148.5MHz. Headphone jack, battery (9V) check function. 4" x 2.5" x 6.75" **\$149.99**



852 Power Line Noise Meter A sensitive (0.3 uV) superhet AM receiver with a wide range noise level meter. Wide-range AGC (over 70dB). Tuned for the 135 MHz region where activity is a minimum and radiation from corona and arcing is far more localized. The telescopic, direction-finding dipole antenna is balun isolated and optimized to give a sharp, clearly defined null for accurately pinpointing noise sources. Plug in your headphone and hear the noise you're tracking or plug in a tape recorder and record the offending noise for playback to your local power company. Compact size: 2.8" w x 4" h x 1.5" d. Uses a 9 volt battery.. **\$89.99**



805 Pocket-Sized RFI Detector Track down and eliminate RFI caused by radiating cables and wires. Simply clamp the top mounted current transformer over suspected cable or wire (up to 1/4 inch diameter) to detect RFI causing common-mode currents. Useable from VLF to VHF. Uses 9V battery. 2.25" h x 4.75" h x 1" d **\$79.99**

886 Pocket Frequency Counter Covers 1MHz-3GHz
 • 300MHz direct count with 0.1Hz/second resolution
 • 10-digit high contrast LCD with 3/4" digits
 • Impedance: 50Ω (VSWR @ <2:1)
 • Sensitivity: 0.8mV @ 100MHz, 7mV @ 300 MHz, 6mV @ 1GHz, 100mV @ 2.3GHz.
 • Maximum input: 15 dBm
 • Synchronous detector
 • Ultra-sensitive RF signal strength LCD bargraph
 • Four selectable gate times give 1Hz-10Hz resolution (300MHz range) and 10Hz-1000Hz resolution (3GHz range)
 • Up to 6 hours operation from rechargeable NiCad batteries (included)
 • Rugged aluminum cabinet, pocket • 2.75" w x 3.25" d x 1.25" d • Includes 110 VAC adapter and telescoping antenna..... **\$109.99**



854 RF Current Meter A top-mounted sense coil snaps over wires and cables, etc. up to 1/2" diameter • Measures actual RF currents in antenna elements, radials, ground wires and on the outside of coax feedlines • Six ranges, 30mA to 3A • Accurate from 1-30MHz • Range with variable sensitivity control, allows tracking down RFI-causing current on household wiring and cables • Press-to-test power circuit turns unit off automatically after 15 seconds to provide long battery life • Built-to-last, all-aluminum case and G-10 PC board • 2.5" w x 5.5" h x 1.5" d, 11 oz **\$89.99**

Used & Demo
 Equipment lists
 Updated regularly on the web.
 Check them out and order **On-line**

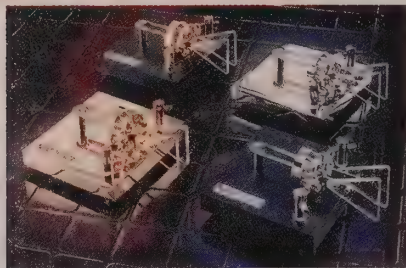


Combination Code Practice Oscillator and CW Monitor Volume control, 3" speaker, & headphone terminals. Requires a code key and a 9V battery
OCM-2K Kit \$19.99 OCM-2W Wired \$24.99



K-1 (left) Low-cost general purpose key w/phenolic base, adjustable tension, contact spacing.. **\$10.95**
K-4 (right) Deluxe high quality key. Polished brass base, shorting bar **\$16.95**

BENCHER, INC.



IAMBI & SINGLE LEVEL PADDLES

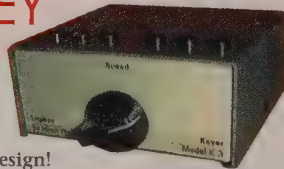
Affordable standard for CW operators world-wide.
BY-1 Black base **\$99.99**
BY-2 Chrome..... **\$119.99**
BY-3 Gold **\$279.99**
BY-4 Black and gold **\$169.99**

LOGIKEY

IDIOM Press

www.qth.com/idiom

Full featured version of the famous Super CMOS III keyer design!



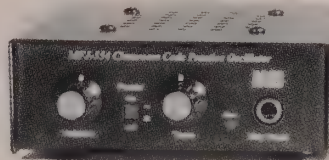
K-3 Non-volatile memory • 6 editable messages, 1,530 characters • Messages can include programmed functions like automatic contest numbers and speed changes • Message can allow paddle inserted text & loop for continuous replay • Linear speed control (5-60 WPM) • Adjustable weighting and monitor tone • Tune function • Auto character spacing if desired • Can emulate others, including Curtis "A" timing • Ultra Speed mode for messages up to 99 WPM • Contest serial numbers 001-9999, with push button decrement • Beacon capability • Full compensation for QSK rig timing • Keys solid-state or grid-blocked tube rigs • 12V DC, < 0.1 amp • 4.25" w x 2.25" h x 4.75" d **\$129.99**
HK-3 Hook-up kit for the K3 Includes Paddle-to-Keyer cordset; RCA-to-RCA keyer output cable and 2.5 mm DC power plug cordset for 12V **\$10.99**

MFJ ENTERPRISES, INC.



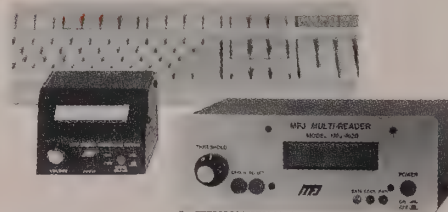
FOR LEARNING/PRACTICING CODE

414 Professional Classroom Tutor Features include LCD readout, printer port and audio tape recording output. Build and save 3 custom sets for extra practice. Or combine these to obtain 48 characters for using the KOCH method. Customize random words for practice. Use with 144/440MHz FM HT or HF transceiver for on-air code practice. VECs can give up to 16 exams. Full-featured memory keyer (1000 character memory, semi/auto modes, iambic A/B, reverse paddle, change speed and tone on-the-fly). Practice sending into the 414 with iambic paddle or straight key. Use built-in or external speaker or headphones. Includes serial port cable and open-end patch cable. 12 VDC or 110 VAC. 8.5" w x 2.25" h x 6" d **\$189.99**



554 Code Practice Oscillator Designed for classroom use with great sound that enhances learning of Morse code. Plenty of volume from a built-in 1W amp and 3" speaker. Volume control and adjustable tone control (400-1000Hz). On/off switch, power ON LED, 1/4" key jack, 3.5mm external speaker jack and DC input jack. Requires 12V DC. All-metal enclosure. 4.25" x 1.5" h x 5" d **\$79.99**

550 Telegraph Key..... **\$7.99**



AIDED CW SENDING/RECEIVING

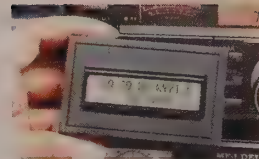
452 Super CW Keyboard (left) A stand alone CW keyboard that includes an RFI suppressed keyboard, a two line 16-character non-volatile LCD display. Send effortless CW by just typing the characters as you see what you are sending on the display. No computer to boot up, no program to load. • Speed: 5-100WPM • Weight: 5-95% • Sidetone: 300-3000 Hz sidetone • Serial Numbers (0-9999) • Has buffer and memory full audible indicators. Keys solid-state and tube-type rigs. Requires 12VDC..... **\$129.99**

462B MultiReader™ (right) Supply this unit with audio from a receiver or transceiver; tune in CW, RTTY, ASCII or AMTOR (FEC) signals; and read the auto decoded text directly from the 2-line, LCD display. • Copy most standard shifts and speeds in all modes • AutoTrak™ feature helps track and decode high speed CW • 8K memory stores several pages • PLL modem technology digs out weak signals • Precision tuning indicator • Printer port • 6.25" w x 2.5" h x 6.25" d • Requires 12VDC **\$169.99**

461 Pocket-Size Morse Code Reader™

No cables to hook-up and no other equipment needed. Simply hold the unit near your receiver and it instantly displays CW text in English! Automatic speed tracking and instant 140-character replay on a 32-character LCD. If desired, a serial port lets you display CW text on a monitor using a computer and terminal program. Connect directly to a receiver with optional cable when it's too noisy or CW is unwanted. • Battery saver (uses 9V - not included) • 2.25" h x 3.25" w x 1" d, 5.5 oz **\$79.99**

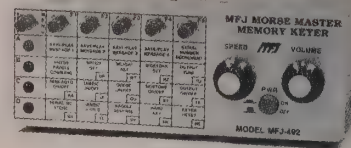
5162 Receiver Cable Connects the 461 to a radio's external 3.5mm jack **\$4.99**



KEYERS

407D Deluxe Electronic Keyer Features dot-dash mem., self completing dots and dashes; jam-proof spacing. RF proof, instant start. Single squeeze, or straight key. Front panel controls: speed, weight, tone & volume, ON/OFF, tune, auto or semi-automatic. Selectable A or B-type iambic keying. Built-in speaker, uses 9V battery. 7" w x 2" h x 6" d .. **\$69.99**

401D Econo Electronic Keyer II Similar to 407D with external speed and volume controls, internal weight and tune controls. Uses 9V battery **\$49.99**



492 Menu Driven Memory Keyer No complex sequences. Save messages, enter iambic, semi-auto, handkey, message queue, paddle modes. Select iambic A/B, Morse trainer, store starting serial numbers. Holds 192 characters in 4 memories (expandable to 8K+ characters in 8 memories. Front panel speed (5-100 WPM) and volume control for sidetone speaker. Direct and grid block keying. 9V battery or 110V AC adapter. 6.5" x 2.5" x 6.25" **\$89.99**

493 All features of the 492, but with 32K memory IBM keyboard input, serial port for computer interface and QSO simulator **\$129.99**

451 Morse Keyboard Stand-alone CW keyboard with 200 character type-ahead buffer, and two 100 character messages. Requires 12VDC..... **\$99.99**

452 Morse Keyboard with 16 character LCD display. Comes with keyboard **\$129.99**

422D Keyer-Paddle Combo

Keyer unit installs on top of Bencher iambic paddle. Uses Curtis™ chip. 9 to 50 wpm. Adjustable weight and tone, dot-dash memory and sidetone. Semi-automatic and tune or auto modes. Keys grid block, cathode or solid state. Uses 9V battery or AC adapter. 4.125" x 2.625" x 5.5" d **\$154.99**
422DX Keyer only **\$79.99**



VIBROPLEX®

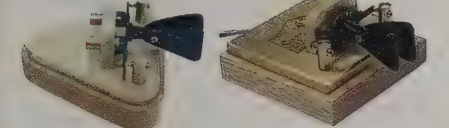
The Original Bug, c. 1904, is still made using tools similar to those used by inventor Horace Martin. Designed for 20-50+ wpm.

110 Standard Painted base/chrome top **\$169.99**
105 Deluxe Polished chrome base and top parts with fine jewel movements **\$199.99**
100 Presentation Polished chrome base and 24K gold-plated base plate and chrome top parts, fine jewel movements **\$269.99**
090 Gold Gold-plated base, chrome top **\$309.99**

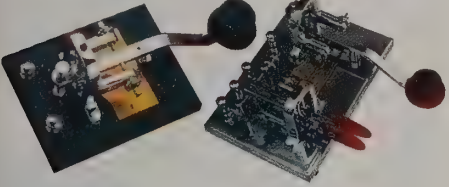


Vibrokeyers: Single lever paddle (left) initiates automatic dots and dashes of an electronic keyer. Iambic model (right) allows automatic dot/dash insertion.

Vibrokeyer
120 Standard Black base, chrome parts. **\$149.99**
115 Deluxe Chrome base and top parts with jeweled movements **\$184.99**
113 Gold 24K gold-plated base and top parts with jeweled movements **\$279.99**
Iambic
135 Standard **\$149.99**
130 Deluxe **\$189.99**
125 Presentation 24K gold-plated base and top parts with jeweled movements **\$249.99**
123 Gold **\$279.99**



145 Brass Racer Iambic (left) Solid brass Iambic paddle on a polished hardwood base **\$139.99**
150 Square Brass Racer (right) Solid lacquered brass Iambic paddle mounted on a polished hardwood base. Magnetic action, no springs.. **\$139.99**



Straight Keys (left) Unique mechanical action, unlike any straight key ever manufactured.
155 Standard **\$149.99**
160 Deluxe **\$189.99**
153 Gold **\$279.99**

Deluxe Double Keys (right) Choice of iambic and straight or vibrokeyer and straight key. Double keys allow you to instantly switch from using an electronic keyer to the personal touch of a straight key.

165 Straight key/Iambic **\$329.99**
170 Straight key/Vibrokeyer **\$329.99**

205 Venus Key Hand-crafted with bright, chrome parts on a heavy, 3.5" round, engraved chrome base. Magnetic tension, red paddles, attached cord. Custom built • 2.4 lbs **Special Order \$449.99**



TONE SIGNALLING

NC-101 Encoder Micro-mini. CTCSS encoder, field tunable to any of the CTCSS tone frequencies between 67Hz and 254.1Hz. 5 to 15VDC. 0.60" w x 0.80" l x 0.15" h **NorFax™ #5040 \$21.99**

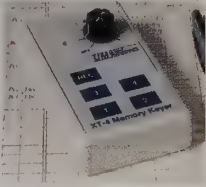
NC-104 Programmable Encoder Sub-miniature field programmable CTCSS encoder unit for limited space. Provides standard 37 EIA CTCSS tones + 69.37, 97.4 and 205.5Hz. 7 to 24VDC. 0.625" w x 0.80" l x 0.170" d **NorFax™ #5150 \$26.99**

NC-106 Program-mable CTCSS Encoder/Decoder A sub-miniature crystal-controlled digital unit. Field programmable with dip switches providing any one of the standard 37 CTCSS tones + 97.4Hz. 6-24VDC. 0.85" w x 1.35" l x 0.28" h **NorFax™ #5230 \$62.99**

NC-401 Touch-Tone® Decoder Unique micro-mini unit combining 2 distinct multi-addressable decoders for control of remote or local applications. Decodes all 16 DTMF characters with an address length of 1-14 characters and features EPROM memory for storage of both primary and secondary codes, input/output functions, deadbeat disable and user outputs, plus default reset. Programming easily performed by means of a conventional DTMF encoder. 6-24VDC. 0.80" w x 1.37" l x 0.23" h. **NorFax™ #5545 \$62.99**
NorFax™ auto fax retrieval system - 530-477-8403

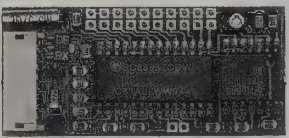
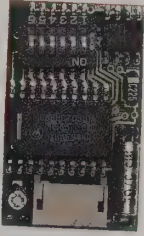


XT-4 CW Memory Keyer Designed for QRP, Field Day, mobile CW county hunting - any portable operation. Also goes well in the shack with smaller rigs. 8-45 WPM. **Memories:** 4 with 100 Morse characters each positive keying output only via RCA phono jack output. 1/8" (3.5mm) stereo jack input. Paddle reverse for left or right-hand operation. Auto power save mode w/flashing LED engages after 30 min. of inactivity. Requires 9V alkaline battery **\$69.99**
KC-4 Cable set for XT-4 **\$9.99**



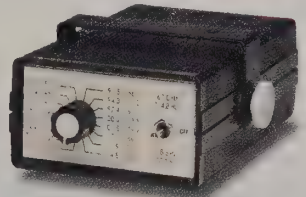
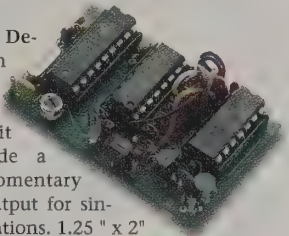
TONE ENCODERS & DECODERS

SS-64 Programmable CTCSS Encoder Super small for easy install in most HTs. Standard with 64 EIA tones between 33 and 254.1Hz. Individual tones dip-switch selectable 0.66" x 1.08" x 0.21", requires 6-28 VDC. **\$28.99**

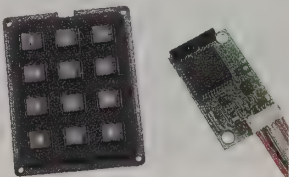


TS-64DS Field programmable CTCSS Encoder-Decoder DIP switch programmable for 64 EIA tones 33-254.1Hz. 1.25" x 2", 0.3", 6-28 VDC..... **\$57.99**

DTD-1 DTMF Decoder Small, high quality, low cost. Decodes any one of 5,040 4-digit codes to provide a latched or momentary open collector output for single function operations. 1.25" x 2" x 0.4", requires 7-16 VDC **Closeout \$34.99**



TE-32 Multi-tone Encoder Provides direct access from a front dial rotary switch to all EIA CTCSS tones from 67.0 to 203.5Hz, allowing users to access various repeaters. Great for mobile or test bench. 5.25" x 3.3" x 1.7", 6-30 VDC **\$49.99**



ID-8 Multi-Featured Automatic Morse ID'er Programmable via 12-button pad • Eight changeable messages • 200 characters total • CW speed: 1-99 wpm • ID interval timing: 1-99 min. • ID hold-off timing: 0-99 seconds • CW tone: 100-3000Hz • 6-20VDC • 1.85" x 1.12" x 0.35" **\$69.99**

Wiring diagrams and lists of Fax-on Demand documents can be obtained from www.com-spec.com.



POWER SUPPLIES

• 105-125V AC input, 13.8V DC output; internally adjustable from 11-15V • Electronic regulation with fold-back current limiting and crowbar over-voltage protection • Heavy-duty heat sink • 3-wire cord • 1-year warranty • Made in U.S.A.

Separate volt and amp meters on RS-20M, 35M, 50M and 70M. Separate volt and amp meters, plus voltage adjustment (2-15V DC) on VS-20ML, VS-35M and VS-50M. RM-35M, RM-50M and RM-60M are rack mount models, plus separate meters.

Model	Cont. Amps	ICS Amps	Size (in.) H W D	Shipping weight	Price
RS-7A	5	7	3.75 x 6.5 x 9	9	\$59.99
RS-10A	7.5	10	4 x 7.5 x 10.75	11	69.99
RS-12A	9	12	4.5 x 8 x 10.75	13	79.99
RS-20A	16	20	5 x 9 x 10.5	18	99.99
RS-35A	25	35	5 x 11 x 11	27	149.99
RS-35A/220V	Same as RS-35A but 220V input				169.99
RS-50A					219.99
RS-70A	57	70	6 x 13.75 x 12	48	259.99
With separate Volt & Amp meters					
RS-20M	16	20	5 x 9 x 10.5	18	119.99
RS-35M	25	35	5 x 11 x 11	27	169.99
RS-50M	37	50	6 x 13.75 x 11	46	239.99
RS-70M	57	70	6 x 13.75 x 12	48	289.99
Adjustable output; separate Volt & Amp meters					
VS-20ML	16	20	5 x 9 x 10.5	20	139.99
VS-35M	25	35	5 x 11 x 11	29	189.99
VS-50M	37	50	6 x 13.75 x 11	46	259.99
Rack mount models; separate Volt & Amp meters					
RM-35M	25	35	5.25 x 19 x 12	38	249.99
RM-50M	37	50	5.25 x 19 x 12	50	279.99
RM-60M	50	55	7 x 19 x 12	60	359.99

POWER SUPPLIES WITH ADDED FEATURES

RS-4L Has a built-in cigarette lighter receptacle in the front panel. 13VDC @ 4A peak, 3 Amps continuous. 3.5"h x 6.5"w x 4.25"d, 6 lbs **\$49.99**

RS-12S With built-in speaker. Rated 13VDC @ 12A peak, 9A contin. 4.5"h x 8"w x 9"d, 13 lbs **\$89.99**

SWITCHING POWER SUPPLIES



SS-25 12V DC, rated 20A continuous, 25A ICS. 3"h x 7"w x 9.5"d, 4.2 lbs **\$109.99**

SS-25M Same as above with volt and amp meters **\$129.99**

SS-30 12V DC, rated 25 amps continuous, 30 amps ICS, 3.75"h x 7"w x 9.5"d, 4.5 lbs **\$119.99**

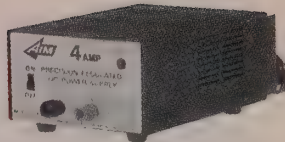
SS-30M Same with volt/amp meters..... **\$139.99**

POWER INVERTERS

12/115 General Purpose Converts 12V DC to 115VAC @ 60Hz. Provides convenient, mobile, AC house current (boat, car, truck, etc.). Powers a ham rig, small household appliance, TV, tools and lights up to 200W continuous (peaks up to 240W, overload protected). Produces square wave output, not recommended for devices where high transients are not tolerable. 4.5"h x 8"w x 9"d, 9 lbs **\$69.99**

N2412-12 28V Aircraft Converts 22-32V DC input to 13.8V DC output @ 9 amps. Eliminates tapping into a 28V battery for 12V power..... **\$49.99**

N2412-24 Same as above, rated at 16A .. **\$79.99**



SMALL POWER SUPPLIES

38-384 Light Duty DC Power Supply Input: 115 V AC • Output: 13.8V DC regulated @ 4A • Front panel binding posts, • LED "ON" indicator, fuse protection • 7.75"d x 4.75"w x 3"h, 5.5 lbs..... **\$39.99**

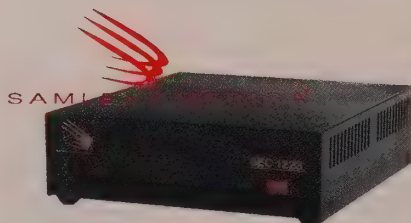


38-305 AC Adapter (left) Provides multiple low-voltage DC to operate various battery powered equipment requiring 3, 4.5, 6, 7.5, 9 or 12V DC with a max. current rating of 500ma. Multiple application plugs and 9V snaps fit most devices **\$9.99**

38-312 Regulated AC Adapter (right) Multi-voltage with multiple plugs and 9V snaps. Selectable 1.5, 3, 4.5, 6, 7.5, 9 or 12V DC regulated with a maximum current rating of 1200ma. to operate a wide range of battery operated devices..... **\$29.99**



GZV-4000 Switching Mode DC Power Supply with Built-in Speaker 120V AC input • Variable output: 5-15V DC with center detent at 13.5V DC • 40 amps continuous rating, 100% duty cycle • Over temperature, overload, short-circuit protection with current foldback at approximately 42 amps • Overload indicator • Selectable monitoring of voltage and current • DC terminals on rear • Cigarette lighter jack on front • Filtered AC line • 8.25" x 13" x 4.5", 8 lbs **\$179.99**



SEC-1223 Low Cost, Base Station Power Supply for HF, UHF & VHF Transceivers Switching mode design • 23 Amp rating • Current limiting • Short circuit protection • Overvoltage protection • Anodized black chassis and powder coat wrinkle black steel cover • Input: 110-120VAC, 200-240VAC • 4.9A input current • 13.8VDC output voltage • 23 Amps output current (24 max.) • 3-year warranty • 7.2" x 8.7" x 2.2", 3.3 lbs **\$99.99**



COMPACT INVERTERS

PowerVerter® Ultra These Low Cost DC to AC Inverters give you access to AC power wherever you need it. Harnessing the 12-volt battery power of your automobile, boat, RV or service truck, they let you use power tools at an out-of-the-way work site, household appliances at a campsite, or office equipment on the road.

Features: • Converts vehicle battery power to clean, safe and efficient AC power • Ultra compact design • Choice of 140w or 300w models • Plugs into vehicle cigarette-lighter socket (includes plug) • Electronic circuit protection • Low battery alarm and shutdown • Illuminated on/off switch • Metal housing • Built-in high-speed cooling fan (PV-300)

PV-140 Offers 140W maximum continuous power and 200W surge capacity (peak power). This model has a modified sine wave and one AC receptacle. 6"l x 3"w x 1.5"d, 1 lb. 4 oz..... **\$42.99**

PV-300 This model is designed to deliver 300W maximum continuous power and 500W of surge capacity. It also offers a modified sine wave and two AC receptacles. 6"l x 4"w x 1.75"d, 2 lbs ... **\$65.99**



SURGE SUPPRESSORS

SUPER-7 For spike suppression and noise filtering, 18,000 amp surge suppression, and RFI/ EMI filtering. Seven outlets, 7-foot cord, three diagnostic LED indicators **\$19.99**

SUPER-7+TEL Same as above with 6 outlets and fax/modem protection for modular jacks.. **\$29.99**

ISOBAR-8 ULTRA Premium Surge Protector Rugged all metal housing - won't break or burn • Isolated filter banks to eliminate interference between connected equipment • Massive 1,200 joule, 96,000 amp spike suppression • Diagnostic alarm system indicates wiring faults, protection circuitry and power line status • 8 outlets, extra long 12' cord..... **\$79.99**

Service Questions?

414-358-4087
Milwaukee, WI

MFJ Switching Power Supplies

Power your HF transceiver, 6 meter/2 meter/440 MHz Mobile/Base and accessories with these
25 or 45 Amp MFJ MightyLite™ Switching Power Supplies!

No RF hash . . . Super lightweight . . . Super small . . . Volt/Amp Meters . . .



4125

Small & Lightweight – MightyLites™ are so light and small you can carry them in the palm of your hand! Take them with you anywhere – no more hauling around heavy, bulky supplies.

Lightweight – The 25A MightyLite™ only weighs 3.7 pounds – 5 times lighter than an equivalent conventional power supply. And, the 45A model weighs just 5.5 pounds!

No RF hash – Some switching power supplies generate objectionable RF hash in your transmitted and received signal. But, these babies are clean!

Low Ripple and Highly Regulated – Less than 35 mV peak-to-peak ripple and better than 1.5% regulation under full load.

Fully Protected – You won't burn up these power supplies! They are fully protected with overvoltage and overcurrent protection circuits.



4225MV

Worldwide Versatility – Switchable AC input voltage for 85-135 or 170-260VAC.

Mighty Features – Model 4225MV and 4245MV feature a front-panel voltage control which varies output voltage from 9-15VDC. Front-panel mounted 5-way Heavy Duty binding posts and cigarette lighter socket for mobile accessories. The 4245MV has two sets of quick-connects on the rear for accessories. Dual three inch illuminated meters monitor load voltage and current. Internal fan.



4245MV

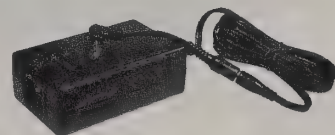
Three models to choose from . . .

4125 (left) Basic, no metering. 25A maximum or 22A continuous. Size: 5-1/2 x 2-1/2 x 2-1/2 inches, 3.5 pounds **\$99.99**

4225MV (center) 25A max. or 22A continuous. Size: 5-3/4 x 4-1/2 x 6 in., 3.7 lbs..... **\$139.99**

4245MV (right) 45A max. or 40A continuous. Size: 7-1/2 x 4-3/4 x 9 in., 5.5 lbs **\$189.99**

4103 Miniature Switching Power Supply – Delivers up to 40W (13.8 VDC @ 2.89A), RFI and Hash FREE. Only 4-1/8 x 2-5/8 x 1-3/8 in., weighs 10 oz. Ideal for the FT-817 and other QRP rigs. Input: 100-240 VAC @ 47-63 Hz. Over voltage, over current, and over temperature protected. Includes a DC output cable with a 2.1mm x 5.5mm plug that fits most MFJ, other ham accessories and QRP rigs. Adapter cable for the Yaesu FT-817 is included **\$39.99**



MFJ 35/30 Amp Adjustable Regulated DC Power Supply

Massive 19.2 pound transformer . . . No RF hash . . . Adjustable 1 to 14 VDC . . .

Super Heavy Duty – This conventional power supply is excellent for powering all types of amateur transceivers and accessories. A massive 19.2 pound transformer allows this power supply to easily deliver 35A maximum and 30A continuous. It's highly regulated with load regulation better than 1% and ripple voltage less than 30 mV.

Fully protected – Over voltage, fold back and short circuit protection. A whisper quiet fan keeps components cool by increasing speed as load increases.

Adjustable Voltage – Front panel control allows adjustment from 1-14 VDC with a convenient detent set at 13.8V. Dual front-panel meters monitor voltage and current.

Versatile – There are three sets of output terminals including a pair of Heavy Duty, 5-way binding posts for transceivers, two pairs of quick-connects for accessories and a cigarette lighter socket for mobile accessories.

Size – 9-1/2 x 6 x 9-3/4 inches, 20.6 lbs.

**MFJ's No Matter What™
One Year limited Warranty**

MFJ will repair or replace (at MFJ's option) these products for 1 year.



4035MV **\$139.99**

MFJ High Current Multiple DC Power Outlets

Distribute power to transceivers and 6 or more accessories from your 12 VDC power supply



1118 Deluxe Multiple DC Power Outlet – The most versatile and highest current rating. Connect to 12VDC source and distribute power to 2 transceivers and 6+ accessories. 2 pair of Super Heavy Duty 30A, 5-way binding posts. Fused, RF bypassed & handle 35A total draw. 6 pair of 5-way binding posts for accessories handle 15A total, protected by a master fuse, and on-off switch with power LED.

Built-in 0-25 VDC voltmeter, 6' of 8-gauge, color-coded cable with ring tongue terminals. Binding posts spaced for standard dual banana plugs. 12.5" x 2.75" x 2.5" **\$74.99**



1116 Similar to the 1118 but does not have 30A posts. Has "on" LED and 0-25 VDC voltmeter. Handles 15 amps total **\$49.99**



1117 Similar to the 1118 but no meter, power LED or on-off switch. Powers up to 4 radios at the same time. Two 35A single posts, one 35A dual post. Size: 8 x 2 x 3 inches, fits almost anywhere **\$54.99**



1112 Similar to the 1116 but no on-off switch, LED, voltmeter meter or fuse..... **\$34.99**

www.mfjenterprises.com



We accept I.M.P.A.C.® Government Credit Cards

MIRAGE

DOCKING BOOSTERS

Slide your handheld into a Mirage docking booster and it instantly becomes a powerful mobile or base! Mirage docking boosters have selectable HT voltages that let you use most handhelds. Place it on your dash-board or desk, or use mounting bracket mount for security and convenience with tilt. • Boost your mobile or base station levels, up to 50W • Replace your HT battery • Becomes a secure and convenient HT holder • Requires 13.8 VDC

B-24-G For 2m FM Handhelds Up to 50W output with 0.5-8W input • 18dB GaAsFET preamp with on/off switch • LEDs show preamp on, on air, and transmit • 4.25"h x 3.35"w x 3.25"d • HT adapters available, see Price Guide..... **\$114.99**

BD-25 For 2M/440MHz FM HTs Up to 45W (2M) & 35W (440MHz) with 0.5-8W input • Full duplex feature lets you simultaneously talk on one band and listen on another with a compatible HT • Auto band selection • LEDs show band and power-on • Reverse polarity protection • 5.25"h x 3.25"w x 3.35"d • HT adapters available, see Price Guide..... **\$164.99**

MAHA

DOCKING BOOSTERS

With the appropriate adapter, you can slide on and boost your ICOM, KENWOOD or YAESU handheld radio up to 50W. Forget about the battery pack, the booster will power the HT at 5W. Also works with ADI products.

MH-A301 2m FM 5W in/50W out, 18dB GaAsFET preamplifier **\$115.99**

MH-A302 Dual Bander (2m) 5W in/45W out; (440MHz) 5W in/35W out..... **\$165.99**

HT AMPLIFIERS

MH-A101 2m FM, 5W in/35W out **\$69.99**

MH-A102 2m FM/SSB, 5W in/35W out, 15dB GaAsFET preamplifier **\$89.99**

MH-A103 2m FM/SSB, 5W in/50W out, 15dB GaAsFET preamplifier..... **\$119.99**

MH-A201 Dual Bander 2m 5W in/45W out; 440MHz 5W in/35W out..... **\$159.99**



VHF/UHF AMPLIFIERS

15 to 300 watts of brute power! Models for 6M-70 cm, base, mobile, repeater or ATV operation • 12V DC • FM (SSB/CW on some models) • 20dB gain GaAsFET preamplifier • Overdrive and high temperature protection • Remote control capability

Model	MHz	Max Input	Max Output	Amps	Pre-amp	Price
A-1015G	50-52	1-15W	150W	23	yes	\$349.99
B-34	144-148	8W	35W	4	no	69.99
B-34G	144-148	8W	35W	4	yes	89.99
B-215G	144-148	0.25-5W	150W	20	yes	339.99
B-1016G	144-148	0.2-15W	160W	25	yes	339.99
B-2518G	144-148	20-35W	160W	25	yes	269.99
B-2530G	144-148	10-35W	300W	48	yes	619.99
B-5018G	144-148	20-60W	160W	22	no	269.99
B-5030G	144-148	0.5-50W	300W	48	yes	599.99
B-310G	144-148	0.25-8W	100W	15	yes	179.99
B-320G	144-148	2.5-50W	200W	25	yes	399.99
BD-35	144/440	1-7W	45/35W	7	no	149.99
C-22G	222-225	2W	20W	5	yes	154.99
C-211G	222-225	2W	110W	20	yes	299.99
C-1012G	222-225	10W	120W	25	yes	299.99
C-1022G	222-225	10W	220W	20*	yes	589.99
C-2512G	222-225	30W	120W	25	yes	289.99
C-2522G	222-225	30W	200W	42	yes	C/O 519.99
C-5012G	222-225	50W	120W	25	yes	C/O 249.99
C-5022G	222-225	50W	200W	42	yes	C/O 479.99
D-15N	425-450	2W	15W	3	no	169.99
D-26N	430-450	2W	60W	12	no	244.99
D-1010N	430-450	10W	100W	15	no	354.99
D-3010N	430-450	30W	100W	20	no	329.99
D-1010ATVN	430ATV	10W	100W	20	no	369.99

N = Type-N connectors

*at 28VDC

RC-1 Remote Control Head For most Mirage amps. Power/preamp On/Off, SSB/FM mode switch. 18" cable. 1.25h" x 3.75"w x 2.25"d..... **\$45.99**

RC-2 Remote Control Head Same as the RC-1 but works only with the Mirage B2518G and B5018G amplifiers **\$45.99**

SGC

SG-500 (52-96)

SmartPower Cube™ Fully automatic band switching, micro-processor-controlled, HF linear amplifier. Ideal for fixed, mobile, and marine operation. Nearly indestructible! Cast-aluminum enclosure, extra heavy duty heat sinks, powder coat finish and durable electronic components. Micro-processor auto adjusts amp input sensitivity, monitors all parameters for faults (heat, VSWR, under-voltage, etc.) and auto selects the correct broadband filter. Operates unattended! • 1.6-24MHz • 500W PEP with 50-90W input • CW rating: 500W output for 10 min., or unlimited with optional fan • 10-18 VDC @ 40A average (SSB), 90A peak, or CW • 6"h x 12.25"d x 11.4"w, 21 lbs. **\$1249.99**



TE SYSTEMS

RF POWER AMPLIFIERS

Linear all-mode operation with auto T/R or PTT switching & adjustable relay delay control. • 13.8V DC • SSB, FM or CW operation • Receive GaAs FET low-noise preamp with 18dbm 3rd-order intercept point for weak signal reception and improved strong signal intermodulation rejection • Excellent electrical and mechanical construction integrity. All RF and DC cables attached out of sight on rear panel • Thermal shut-down protection • 3"h x 10"w x 11"d, except 1410G, 2212G and 4412G (3"h x 6"w x 11"d) • UHF connectors, except 4452G (type-N).

TE Model	Freq MHz	In (W)	Out (W)	Amps @13.8V	Preamp NF/Gain	Price
6-meters						
0510G	50-54	10	170	25	.7/15	\$319.99
0552G	50-54	20-25	375	54	.7/15	486.99
2-meters						
1410G	144-148	5-10	160	27	.7/15	328.99
1412G	144-148	25-45	160	22	.7/15	286.99
1452G	144-148	10-25	350	52	.7/15	525.99
3/4-meter						
2212G	222-225	25-45	130	16	.8/14	316.99
70 cm						
4412G	420-450	15-30	100	19	1.2/12	355.99
4452G	420-450	25	185	30	1.2/12	547.99



PW-1 HF + 50MHz Solid State Linear Amplifier Frequency range: 160-15m, 6m • Power output with 220V input: 1000 PEP SSB, 1000W CW/RTTY (100% duty cycle, QSK) • 100W drive • Built-in all band automatic antenna tuner • Automatic AC voltage selector and band change • Current, voltage, temperature, SWR, output power protectors • Wide range adjustable ALC allows use with almost any rig • Control head may be detached from main unit (shown) • Built-in 110/220VAC supply • 14"w x 10.5"h x 14.5"d, 56 lbs. **Special \$4699.99**

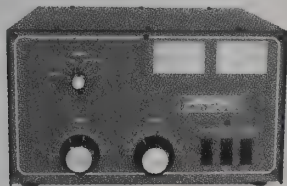
YAESU



QUADRA SYSTEM HF/50MHz Solid-State Amp Frequency range: 160-15m, 6m • 1000W (6m: 500W) • 100W drive • 4 twin MOSFET PA modules • Dot matrix multi-function LCD • 2 input and 4 output jacks for easy connection to station antenna • Built-in high-speed auto antenna tuner • Panoramic SWR display shows "before tuning" and "after tuning" SWR data • SWR protection • Automatic band switching with FT-1000, FT-1000MP, FT-1000MP MK V, and FT-920 • 117VAC for 500W; 220V AC for 1000W • 6.25" x 5.375" x 16.25", 59 lbs. **\$3999.99**

811A Amplifiers

- Cover 16-15M, including WARC/MARS bands
User Modifiable for 10/12M with proper license
- All Modes
- HD silicon steel core Plate Transformer (17 lbs.)
- Tuned Input • ALC Control • Quiet Air Cooling
- Dual Meters show Plate Voltage, Grid and Plate Current • Vernier Reduction tuning
- Comes wired for 120V Operation
- Size: 15.5" d x 13-3/4" w x 8.25" h, 52 lbs.

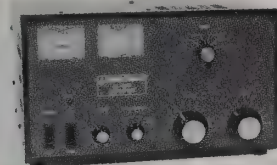


AL-811 – Uses (3) 811A transmitting tubes. Delivers 600W PEP output SSB and 500W CW..... **\$599.99**

AL-811H – Uses (4) 811A transmitting tubes. Delivers 800W PEP SSB or 600W CW**\$749.99**

3-500Z Amplifier

- Covers 16-15M, including WARC bands.
User modifiable for 10/12M with proper license
- HD silicone steel core Plate Transformer (26 lb) and Computer Grade capacitors
- A Full KW PEP! (70% efficiency)
- Tuned Input • Adjustable ALC • Air Cooled
- Dual Cross-Needle meters show SWR, Refl. PEP power, Plate voltage, Grid and Plate current
- Operates from 90-140 VAC or 205-250 VAC
- Size: 15-1/2" d x 14-1/2" w x 18-1/2" h, 48 lbs.



AL-80B – Uses a single 3-500Z transmitting tube. Delivers 1000W PEP output SSB and 850W CW. The high-voltage secondary can be wired to reduce plate voltage for efficient operation below 400W for use outside the USA**\$1199.99**

Solid State Mobile Amplifier



ALS-500M – Uses (4) 2SC2879 RF power transistors. The ideal amplifier to increase your HF mobile up to

500 Watts. Continuous coverage 1.5–22 MHz* with instant bandswitching, no tuning, no warm-up and SWR protected. Runs nicely from 13.8 VDC mobile electrical system, draws 75A peak current. Size: 3-1/2 x 9 x 15 inches, 5-1/2 lbs. **\$699.99**

Solid State Base Amplifier



ALS-600 – No tuning, no fuss, no worries – just turn it on and operate. Continuous coverage 1.5–22MHz*, instant bandswitching, SWR and over power protected. Full 600W output, includes AC power supply. Extremely quiet, very compact. Amplifier and power supply both 6" x 9-1/2 x 12 inches, 30 lbs., total. **\$1129.99**

*Modification kit (MOD-10M) for 10/12M operation is available direct from Ameritron

AMERITRON

3CX-800A7 Amplifiers

- Cover 16-15M, including WARC bands.
User Modifiable for 10/12M with proper license
- HD silicon steel core Plate Transformer (32 lb.)
- Tuned Input • ALC Control • Air Cooled
- Dual illuminated Cross-Needle meters show SWR, Plate voltage, Grid and Plate current
- Operates on 90-140 VAC, 200-250 VAC
- Size: 8-1/2" h x 16-1/2" w x 13-3/4" d, 52 lbs.



AL-800 – Uses as a single *Eimac*® 3CX800A7 tube. Delivers 1250W PEP SSB output.....**\$1629.99**

AL-800H Uses (2) *Eimac*® 3CX800A7 tubes. Delivers 1500W PEP SSB output.....**\$2399.99**

572B Amplifier

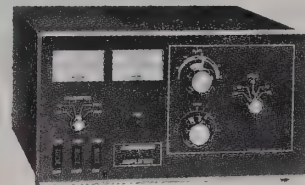
- Covers 16-15M, including WARC bands
User modifiable for 10/12M with proper license
- Heavy Duty silicone steel core Plate Transformer
- Instant 3 second warm up
- Tuned Input • ALC Control • Air Cooled
- Dual illuminated Cross-Needle meters show SWR, Plate voltage, Grid and Plate current
- Multi-voltage Operation
- Size: 8-1/2" h x 15-1/2" w x 14-1/2" d, 40 lbs



AL-572 This *Near Legal Limit*™ amplifier uses (4) rugged 572B tubes. Delivers 1300W PEP SSB and 1000W CW continuous output for about 65% of the price a full legal limit amp **\$1299.99**

Super Legal Limit Amplifiers

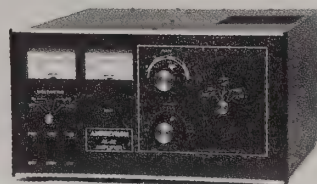
- Cover 16-15M, including WARC bands.
User modifiable for 10/12M with license
- Strong Stainless Steel Chassis
- Highly efficient *PeterDahl* tape wound Hypersil® Plate Transformer, capable of 2500W
- Grid and Plate meters show drive, ALC, Power output and PEP Watts
- Size: 18" h x 17" w x 10" d, approx. 77 lbs.



AL-1500 – Uses a single *Eimac*® 8877 Ceramic tube. Only 65W drive delivers full, legal, 1500W CW output. Time-delayed start protects the tube and over-current shut-off removes the drive if amplifier is mistuned..... **\$2599.99**



AL-1200 – Uses Ham radio's toughest tube, the *Eimac*® 3CX1200A7. It has a 50W control grid dissipation and can deliver more than 2500W two-tone output for a half hour..... **\$2199.99**



AL-82 – Uses a pair of 3-500Z tubes. Delivers 1500W output which is more than other 3-500Z linears because their lighter weight power supplies can't use these tubes to their full potential **\$2099.99**



We accept I.M.P.A.C.® Government Credit Cards



ACCESSORIES

ATP-100
Tuning Pulser – Safely tune amplifiers. Prevents overheating, tube damage, power supply stress and component failure..... **\$49.99**

ADL-2500
Dry Dummy load – Rated 2500W average power for 1 minute on, 10 minutes off, 300W cont. Air cooled, low VSWR up to 60MHz.. **\$189.99**

ADL-1500
Oil Filled Dummy Load – Handles 1500W for 5 minutes. Usable with low VSWR up to 400 MHz. Includes oil and container **\$69.99**

QSK-5
Pin diode T/R Switch – Faster than a vacuum relay. Connects externally to HF amplifiers. Handles 2.5KW PEP, 2 KW CW **\$329.99**



ICP-120/240
In-rush Current Protector – Stops power-up in-rush current surge and absorbs momentary voltage spikes. ICP-120 for 110-120V; ICP-240 for 220-240V each **\$79.99**

ATR-30
1500W Antenna Tuner – Tune nearly any antenna system 1.8–30MHz. Rugged, heavy duty components, edge wound, silver-plated roller inductor. Cross-needle meter..... **\$549.99**

RCS-8V
Wireless Remote Coax Switch – Replace 5 feedlines with a one coax. Low VSWR, useable up to 450 MHz. Rated 1kW @ 150MHz **\$139.99**

RCS-4
Remote Coax Switch – Selects one of four outputs by supplying control voltages thru the coax. Rated 1500W from 1.8–30MHz... **\$129.99**



ARB-702
Amp-to-Radio Interface – Protects transceivers from damage by keying line transients, steady state current and excessive voltages. See Price Guide for models..... ea. **\$39.99**

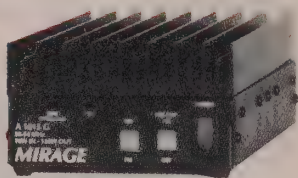
AWM-30
SWR/Wattmeter – Has a cross-needle meter, reads Peak/Average on 300W/3KW ranges up to 30MHz**\$139.99**

MIRAGE Power Amplifiers

Boost Mobile, Base or Handheld Power!
All Modes: FM, SSB, CW . . . Superb GaAs FET preamplifier in G Models
Overdrive, high SWR, Over-temperature protection . . . Remote controllable

2 Meters

B-5018G
\$269.99



160W output with 50W input, preamp

- Ideal for 20 to 60W 2M Mobile or Base units.
- Heavy-duty heatsink spans entire length of cabinet and prevents overheating. Power transistors are protected by MIRAGE's Therm-O-Guard™
- Requires 17-24 amps @ 13.8 VDC
- Compact: 12 x 3 x 5-1/2 inches

Power Curve – typical for the B-5018-G									
Watts Out	130	135	140	145	150	155	160	160+	
Watts In	20	25	30	35	40	45	50	55	

160W Output with 25W input, preamp

B-2518G Boost 10–35W 2M Mobile or Base stations, 25W input produces 160W out.. **\$269.99**

Power Curve – typical for the B-2518-G									
Watts Out	11	35	69	91	111	135	153	160	
Watts In	1	3	6	8	10	15	20	25	

160W for HTs & Lower Powered Rigs, preamp

B-1016G Boost 0.2–15W 2M HTs, Mobile or Base rigs. 10W input delivers 160W output..... **\$339.99**

B-215G For 0.25–5W 2M HTs. 2W input delivers 150W output, 160W out with 2-1/2W in.. **\$339.99**

B-34



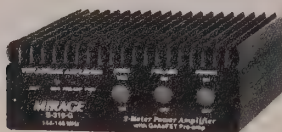
B-34G

35W Output for 2M HTs

B-34G (bottom) Boost 2M HTs with up to 8W output to 35W+ output. 18dB GaAsFET preamp. and mobile bracket. 13.8 VDC @ 4A **\$89.99**

B-34 (top) Like B-34G but FM only, less preamp and mobile bracket. 3-1/8 x 1-3/4 x 4-1/4 in. **\$69.99**

Power Curve – typical for the B-34G							
Watts Out	18	30	33	33	35	35	35+
Watts In	1	2	3	4	5	6	8



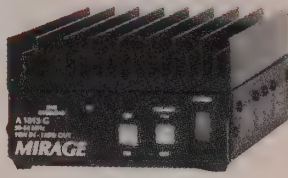
100W Output for 2M HTs

B-310G Boost 0.25 to 8W 2M Handhelds to 25 to 100W+ output. Includes mobile mounting bracket and BNC to amplifier patch cable. 13.8 VDC @15A. 4-3/4 x 1-3/4 x 7-1/4 in. **\$179.99**

Power Curve – typical for the B-310-G								
Watts Out	25	50	75	95	100	100	100+	100+
Watts In	0.25	0.5	1	2	4	6	7	8

6 Meters

A-1015G
\$349.99



160W for 6 meters

Covers 50-52MHz and provides 160W output with 10W input; FM, SSB or CW. Built-in Low Noise GaAsFET receive preamplifier, internal T/R switching and remote keying. 13.8 VDC @ 18-23 Amps. 12 x 3h x 5-1/2 in., 5 lbs

2M/440

BD-35
\$149.99



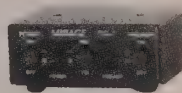
45/35W Dual Band HT Amp – No Preamp

For dual-band HTs with up to 7W output Produces up to 45W output on 2M and 35W on 440 MHz. Automatic band selection, full duplex operation. Single connector for dual band radios and antennas. 12-15 VDC @ 7A. Size: 5"w x 1-3/4"h x 5"d. Mobile bracket included

Power Curves – typical BD-35 output power									
Watts Out (2M)	30	40	45	45+	45+	45+	45+	45+	
Watts Out (440 MHz)	16	26	32	35+	35+	35+	35+	35+	
Watts In	1	2	3	4	5	6	7	8	

Remote Control heads

RC-1 – Allows remote control of amp functions: Power and preamp on-off, FM/SSB mode select. Only 1.75" x 3.75" x 2.5". Comes with 18 ft. cable. **\$45.99**
RC-2 for B-2518G and B-5018G **\$45.99**



VECTRONICS

... fine amateur radio products



Versatile 300W Antenna Tuner

VC-300DLP Match any antenna • Full 1.8-30 MHz coverage • Rated 300W PEP, 200W continuous; 150W on 1.8 MHz • Continuous rotation capacitors and 12-position switched inductor • Peak reading backlit Cross-Needle Meter • Built-in 8-position antenna switch and dummy load 10-1/4"w x 9-1/2"d x 3-1/2"h, 3.4 lbs **\$149.99**

More Vectronics Amateur Products

AT-100 Tuned active SWL antenna **\$79.99**
CK-200 Deluxe CW keyer **\$79.99**
DL-300M 300W dry dummy load **\$44.99**
DL-650M 1500W dry dummy load **\$74.99**
DL-2500 2500W dry dummy fan **\$179.99**
VC-300M 300W mobile tuner **\$99.99**
VC-300D 300W tuner w/digital bargraph.. **\$179.99**
HPF-1 High pass TVI filter..... **\$24.99**
HPF-2 Deluxe High Pass TVI filter **\$29.99**
PM-30HF 1.8-60 MHz SWR/Wattmeter **\$79.99**
PM-30UV 144/220/440MHz SWR/Wattmeter **\$89.99**
LP-30 1500W Low Pass filter..... **\$69.99**
LP-2500 Low Pass Filter, 2500 Watts..... **\$129.99**

More MIRAGE amps...

including models for 220MHz, 430-440MHz. Also, continuous duty Repeater Amplifiers for 6, 2, 1-1/4 meters, 70 cm, 450 MHz & ATV.

See the Price Guide under MIRAGE

Low Noise, High Gain GaAsFET Receive Preamps



- Improves weak signal reception
- Less than 0.8 dB Noise Figure
- 15–22 dB gain with selectable level to prevent receiver overload and intermod.
- Automatic TR RF switching up to 100W thru put
- In-Shack or Mast-Mount models
- Rugged die-cast enclosures.

In-Shack Models – **\$129.99** ea.

KP-1/10M for 28-30MHz **KP-1/6M** 50-54MHz
KP-1/2M 144-148MHz **KP-1/220** 220-225MHz
KP-1/440 430-450MHz

Mast Mount Models – **\$179.99** ea.

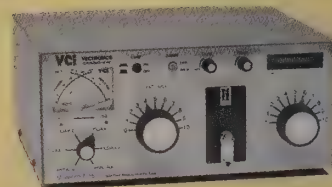
KP-2/6M for 50-54MHz **KP-2/2M** 144-148MHz
KP-2/220 220-225MHz **KP-2/440** 430-450MHz
KP-2/10M for 28-30MHz – Closeout **\$139.99**

MFJ

DC Power for your MIRAGE Amplifier



4035MV Heavy Duty - its transformer weighs 19.2 lbs! Voltage front panel adjustable 0–15 Volts. Dual meters show Volts and Amps. Rated 30A continuous, and 35A peak. Fully regulated and fully overload protected. 110 VAC **\$139.99**



High Power Roller Inductor Tuner

HFT-1500 Match any antenna Full 1.8-30MHz coverage • Rated 2KW PEP, 1KW continuous • Three continuously variable components: two 4.5kV capacitors and a crank driven a roller inductor with digital counter • Lighted Cross-Needle SWR/Wattmeter and 20-segment Digital Bargraph • Built-in 6-position coax switch and 4:1 balun • 5-1/2"h x 12-1/2"w x 12"d, 10 lbs..... **\$399.99**

See the Price Guide for a list of Vectronics Kits

KOSS stereophones



KTX/4 Lightweight, Portable Stereophone (left) Frequency response: 40-20,000Hz • Collapsible design for easy storage and portability • Straight, dual entry, 4' cord with 3.5/6.4mm stereo plug • Volume control on the cord for easy level adjustment • Sensitivity: 95dB SPL/1mW • Impedance: 32Ω • 2 oz..... **\$14.99**

QZ/99 Passive Noise Reduction Stereophone with Mono/Stereo Switch (right) Frequency response: 40-20,000Hz • Coiled, single entry, 8' cord with 3.5mm/6.4mm plug • Sensitivity: 102dB SPL/1mW • Impedance: 60 Ω • 15 oz..... **\$59.99**



QZ/2000 Noise Reduction Stereophone Revolutionary Active Noise Reduction system reduces harmful/annoying low frequency sounds in noisy places • >15dB SPL from 40-200Hz; average of 10dB SPL from 30-1000Hz • Frequency response: 15-20,000Hz • Straight, dual entry, 4' cord • Compact control case and collapsible stereophone • Adjustable headband • Input jack for audio play-through and 2-prong adapter for in-flight use • Sensitivity: 101dB SPL/1mW • Impedance: 5kΩ • Includes 2 "AA" batteries • 2.3 oz..... **\$179.99**

ASTATIC

SILVER EAGLE D-104 Mic, Final Addition Few products in U.S. history have achieved the renowned status of the Silver Eagle. From lollipop design to time-honored break-thru sound, the D-104 has pleased communication enthusiasts for 8 decades. Includes collector's case, certificate of authenticity, engraved serial number, and name plate..... **Closeout \$199.99**



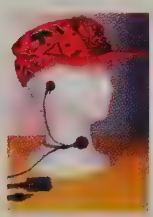
Secure
www.aesham.com

PREMIER communications

SPM-100 Small Speaker/Mic This is a lightweight, compact unit. The microphone features a high-quality condenser-style mic element and high-fidelity audio circuit that produces excellent transmitted audio clarity, as well as a powerful speaker. It may be secured to the user's lapel or shoulder..... **\$21.99**



SPM-400A Mini Boom Mics The SPM-400A headsets include an in-the-ear speaker and a rubber-covered earloop design that adjusts to comfortably fit either the right or left ear of any user. The unit features an in-line Push-To-Talk switch that can be clipped to the user's lapel or belt **\$34.99**



SPM-500 Throat Mic/Earphone The SPM-500 throat microphone is the answer to high noise environments. Our SPM-500 rests comfortably against the user's throat, picking up audio directly from vocal cords. This provides outstanding background noise suppression and surprising clarity..... **\$19.99**

See the Price Guide to find correct model numbers for your specific brand of radio.

YAESU

Choice of the World's top DX'ers™



MD-200A8X Ultra-High Fidelity Desktop Microphone Designed for base station use with the MARK V FT-1000MP. Employs a studio-quality, wide range (30-17000Hz) dynamic element optimized for High Fidelity SSB operation. An exclusive Variable Side Pressure Control (VSPC) allows user adjustment of the overall frequency response. Adjustable from a totally-flat, natural, high-fidelity sound for everyday S-9+ rag chewing; or high-articulation with a moderate peak above 1500Hz, for DX or Contests. • Aluminum die-cast base with locking and momentary PTT switches • UP/DOWN scanning switches • Bright red LED • Housing can accommodate the addition of a favorite DX or Contest microphone element • Also works with the FT-847, FT-920 and FT-1000MP (also with the FT-1000/FT-1000D, without "TX" LED operation) • Includes a dual-connector cable with regular and modular mic plugs • 4.7" w x 12.6" h x 4.9" d, 2.2 lbs **\$379.99**



We accept I.M.P.A.C.® Government Credit Cards

KENWOOD

HS-5 Deluxe Headphones Specifically designed for use with communication systems. It provides natural sound and eliminates uncomfortable pressure feeling which permits long hours of fatigue free listening. To increase the volume level or when you are using the headphones in a noisy room or want privacy, replace the ear-pads with the vinyl leather ones. These are pressure-fit type ear-pads and will increase the sound pressure by about 10dB while sealing out noise. Both types are included. Includes 6 feet connecting cord with plug. Impedance: 8Ω • Maximum input: 200mW @ 1000Hz) • Frequency response: 150-4000Hz (-6dB) • Approx. 350g..... **\$79.99**



MOTOROLA

HEADSET

53725 FRS Headset with Swivel Boom Mic Allows you to clearly hear messages from Motorola FRS units in high noise areas or in quiet environments without disturbing others. Transmit messages without removing radio from belt or case. Enjoy hands-free talk when used with a Voice Activated Transmission (VOX) capable TalkAbout..... **\$14.99**



HF-24RS Headphones For Scanners Designed specifically for racing fans. • Adds to the excitement when using a scanner at the races • Listen in on driver-to-pit conversations with reduced noise • Snug fit, cushioned headband for wearing comfort • Comfort fit cushions let you hear the action over crowd and engine noise • Dual volume control to maximize hearing levels • Includes 3.5mm, Premium Gold, right-angle plug with a 10' coiled cord **\$19.99**

SHURE®



526T SERIES II Super Punch® Transistorized Base Station Microphone Adjustable height, dynamic microphone with built-in preamp and output level control. Designed to replace ceramic or dynamic, high or low impedance mics originally supplied with most equipment. The 200-6,000Hz frequency response provides optimum intelligibility. Comes with 6-wire cable and triple pole double-throw locking PTT for wide range of mic to transceiver connections. Includes 9V battery **\$124.99**



Microphones, Elements & Accessories

... defining the standards for
Amateur Radio communications

GOLDLINE

Full Range Dual Element Microphone

Provides full-range, smooth and articulate audio for AM, FM and "Hi-Fi" SSB. The wide 60 -16 kHz frequency response, with a +4 dB midrange peak @ 2 kHz, produces brilliant articulation which is so important for clear, understandable SSB audio, and adds a well-balanced and robust low end.

In addition, the GOLDLINE comes equipped with a second HC-4 or HC-5 element. for extra punch when you need it.

The diecast body is finished in high lustre black lacquer and topped with a crushproof golden grill. A "wide-narrow" switch selects the second element, and a "soft touch" microswitch provides smooth, noise free PTT operation. Requires a CC-1 adapter cable.

GM-4 GOLDLINE with Full Range and HC-4 elements.... **\$140.99**

GM-5 GOLDLINE with Full Range and HC-5 elements.... **\$140.99**

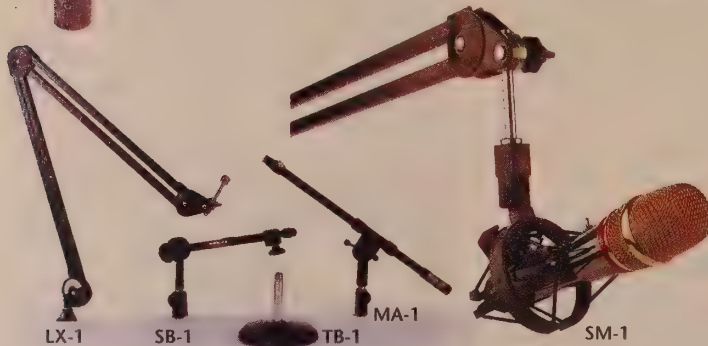
GM-V "Vintage" GOLDLINE - A built-in matching transformer allows its use with older rigs like Collins, Hallicrafters, Johnson, etc. Uses the Full Range element and switchable Passive EQ circuit or an alternate narrow, more articulate response..... **\$155.99**

HM-i Condenser Microphone for ICOM

HM-i - A single element microphone with a high output electret element for use exclusively with ICOM radios. Uses the GOLDLINE body with a brushed stainless-steel top. A "wide-narrow" switch selects between a full range response, or a response with a high frequency roll off. Requires CC1 cable..... **\$95.99**



HM-i



BASE, BOOM/CLAMP ASSEMBLIES

LX-1 Professional Studio Boom by LUXO - The spring loaded arm is balanced for a 1 lb. microphone - reaches 41 in. "C" clamp mount, 5/8" x 27 thread .. **\$95.99**

SB-1 Small Microphone Boom - Extends from 10 to 20 in. Clutch system and "C" clamp mount keeps the microphone in place under any conditions .. **\$33.99**

MA-1 Boom - Telescopes out to 30 in. and attaches to desk or shelf, or hangs from ceiling. Swivels a full 360° to place microphone right where you want it. You can use the FS-1 Footswitch or HS-1 Handswitch for PTT operation **\$45.99**

TB-1 Table Base Mount - For HM-10, HM-i or GOLDLINE microphones. Heavy (2 lb-10 oz) cast metal base with non-skid cork feet, 6 inches high..... **\$25.99**

SM-1 The Ultimate Shock Mount - Mounts on boom, 8-point flexible suspension supports and isolates GOLDLINE or HM's to reduce mechanical vibration .. **\$50.99**



0.530" d x 0.850" w x 0.310" h

HIGH PERFORMANCE ELEMENTS

For improved audio performance, replace the cartridge in your factory microphone with a Heil; the same elements used in their High-Performance microphones. Tiny in size, easily replaces existing cartridges in most microphones.

HC-5 - Full Range Articulation

Makes any rig sound better and more intelligible by providing full articulation and clarity. The response is 350-4000Hz, with a sharp roll-off under 300Hz and above 3100Hz, with a peak at 2100Hz. The result is very clear, easy-to-understand SSB audio for everyday communications that will get you lots of complements **\$30.99**

HC-4 - The "DX Dream Machine"

Super clarity with more punch for contest, DX and weak-signal VHF/UHF work. Outstanding results on aurora, backscatter, etc. Produces a high-pitched, pile-up sounding 500-3800Hz response with a 10dB peak @ 2000Hz, and a sharp 12dB per octave roll off @ 500Hz. It's a penetrating sound, not particularly pleasing for everyday rag chewing **\$30.99**

HM-10/HM-10 Dual Studio-style Microphones

Old favorites upgraded with a new body and PTT switch like the GOLDLINE. The HM-10 comes with your choice of a HC-4 "DX Dream Machine" or HC-5 "Full Range Articulation" element.

The HM-10 Dual contains both the HC-5 "Full Range Articulation" element and HC-4 "DX Dream Machine" cartridges, switch selectable giving you a choice for varying conditions. Both require CC-1 cable.

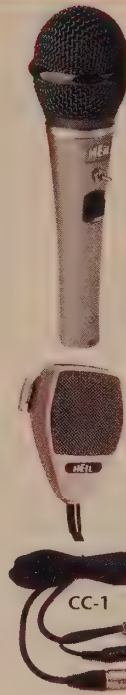
HM-10 with HC-4 or HC-5 ... **\$65.99**

HM-10-DUAL with HC-4 and HC-5 ... **\$115.99**

HMM Hand Microphones

HMM Dual Element - Heavy duty, commercial quality. Contains an entirely new Full Range Dynamic element and a switch selectable HC-4 "DX" element. Internal noise canceling cavity greatly reduces background pick-up. The coiled cable is terminated with an 8-pin plug for KENWOOD or YAESU (specify) - not for ICOM..... **\$78.99**

HMM-ic Single Element - Same as HMM, but contains the new HEIL Electret Condenser element designed specifically for outstanding performance with ICOM radios; no HC-4 or switch..... **\$58.99**



ADAPTER CABLES & SWITCHES

CC-1 Adapter cable - Required for the GOLDLINE, and HM's. Specify the cable with connectors to match Icom, Kenwood, Ten-Tec or Yaesu radios. The 6 ft. cable is also wired with a 1/4 in. female jack to accommodate the plug from a FS-1 Footswitch or HS-1 Pushbutton Hand Switch. (Specify radio) ea. **\$30.99**

HS-1 Pushbutton Handswitch - Plugs into CC-1 jack for PTT control of your radio. A 6 ft. cable terminates into a 1/4" phone plug **\$25.99**

FS-1 Footswitch - Plugs into CC-1 for "hands-free" PTT operation. Stays put with non-skid pads. A 6 ft. cable terminates into a 1/4" phone plug **\$30.99**

FS-2 Dual Footswitch - Larger than the FS-1 and the hinge point is reversed and is under the heel for less operating fatigue. It has TWO large microswitches which activate in sequence and have separate cables with standard phone plugs .. **\$38.99**

AD-100 Microphone/Boomset Adapter - Allows use of all HEIL products with the YAESU FT-100 series. Solves the problem of the multiplexed microphone, touch tone audio and control data appearing on the microphone line **\$25.99**

HD-AT Headphone Attenuator/Adapter - Allows 1/4" headphone jacks to plug into a 1/8 in. jack. Contains a -6 dB pad which reduces output and allows use of HEIL headsets with FT-100 or IC-706 without overload and distortion..... **\$5.99**

XT-1 Matching Transformer - This sub-miniature unit matches Low-Z microphones to High-Z inputs used in older Collins, Drake, Hallicrafters, etc..... **\$15.99**



NEW

the **CLASSIC**

Today's Studio Sound in the Classic look of the 1930s

An exact replica of the famous 1930 RCA 74B Broadcast Microphone. Quality, all metal construction - no plastic.

Back panel switches select the Classic's new Heil Studio One great sounding everyday element or the famous HC-5 element for more punch, and a soft-touch PTT switch.

The base is removable for inverted boom mounting. Uses the Heil CC-1 cables.

After purchase, your Call Letters are available direct from Heil **\$229.99**

NEW
the **ICM**

The answer for your pre-PRO ICOM rig.

A new High Performance Electret mic element provides plenty of drive for older ICOM low-level inputs. Sounds Great! New platinum finish, soft touch PTT switch and attached 8-pin cable with jack for FS-1/2 and HS-1. Fits all Heil booms and shock mounts. **\$89.99**





Headset/Boom Microphones

The Standard for leading Contesters and DXers Worldwide!

PRO-SETS - Rugged, lightweight boomsets designed for performance and comfort during extended wearing times. The padded, fully adjustable headband provides maximum comfort. Heavily padded vinyl earpads seal out noise, and are removable for washing. The flexible microphone boom is fully adjustable to your liking. Cables are wired with 1/4" stereo plug and 1/8" transmit audio plug and use a Heil AD-1 (\$17.99) to conveniently adapt to various radios.



PRO-SET PLUS Maximum comfort and noise seal is provided by new full cover leatherette ear pads with removable cotton covers. The cushioned inner headband is self-adjusting for a perfect fit, and the boom swings 180° for left or right side operation. Includes switchable, dual microphone elements; the Heil HC-5 for normal operation, the HC-4 for DX. The boom and top headband have rugged but flexible internal steel bands, and can be adjusted as you wish without fear of breaking. Great sound from frequency tailored speakers mounted in tuned cavities, and a phase reversal switch changes the sound field. The audio changes from being 'centered' in your head, to a spatially widened effect. This feature greatly reduces listening fatigue and in some conditions can reduce noise and enhance intelligibility **\$189.99**

PRO-SET-4 Lightweight comfortable headset with flexible boom and HC-4 "DX" element. Uses the Heil AD-1 cable system for different radios **\$130.99**

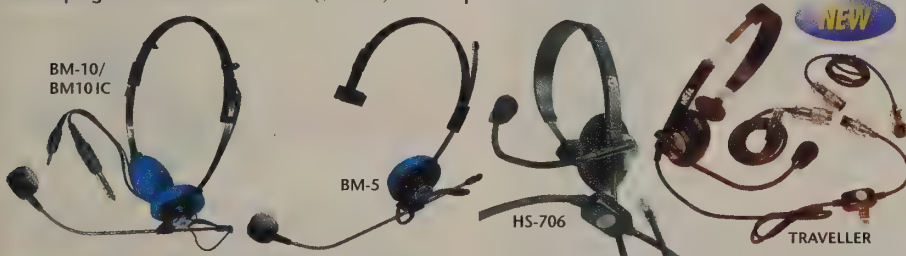
PRO-SET-5 Same, but with the HC-5 "Full Range" element **\$130.99**

PRO-5 Single headset/Boom Microphone. If you are concerned about covering both ears and want to monitor your surroundings, the PRO-5 will do the job. Provides all of the quality and performance as the PRO-SET without covering the right ear.

PRO-5-4 with the Heil HC-4 "DX" element **Closeout \$89.99**

PRO-5-5 with the Heil HC-5 "Full Range" element **Closeout \$109.99**

BM-10 Series Headset/Boom Microphones - featuring a lightweight (8 oz.), soft and comfortable headphone for prolonged use in contests, etc. The high performance boom microphone is available with the Heil HC-5 "Full Range" or HC-4 "DX" element. Cable is wired with 1/4" stereo plug and 1/8" transmit audio plug and uses a Heil AD-1 (\$17.99) to adapt to various radios.



BM-10-4 with the HC-4 "DX" element **\$89.99**

BM-10-5 with the HC-5 "Full Range" element **\$89.99**

BM-10-IC Headset/Boom Microphone for ICOM only A special FET Electret element produces plenty of articulate audio for ICOM radios, includes adapter cable **\$106.99**

BM-5 SERIES Same as the BM-10 but with a Single Headphone. Great for mobile!

BM-5-4 with HC-4 "DX" element **\$69.99**

BM-5-5 with HC-5 "Full Range" element **\$69.99**

BM-5-IC with new FET Electret Element for ICOM radios, with adapter **\$86.99**

HS-706 Single-side Headset/Boom Microphone for the ICOM IC-706 series. A special FET electret microphone produces plenty of articulate audio. Foam padded and vinyl covered headphone with wide-range dynamic unit. The microphone boom rotates 180° and may be worn on the left or right ear. A PTT switch is mounted half way down the 6 ft. cable terminated with an 8-pin modular plug **\$59.99**

TRAVELLER Single-side Headset/Boom Microphone Similar to the HS-706 (above) but has a Up/Down and PTT control unit with belt clip installed on a 3 ft. long cable. Three models: Traveller 817 (FT-817), Traveller 706 (IC-706) and Traveller 8P IC (8-pin ICOM). Included is a patch cable with proper termination (specify) ea. **\$89.99**



HEADSET MICS

Deluxe Headset Microphone (left) Lightweight and comfortable. Superb transmit audio, and earphone tonal quality. A foam covered microphone element is attached to the headset with a flexible rubber boom allowing proper positioning. A small PTT switch attached to the 6' cord can be held or attached to your clothing. Order **288I** for Icom, older Yaesu, Standard, ADI, Radio Shack and compatibles • **288K** for Kenwood and compatibles • **288Y** for Yaesu FT-10, 50, VX-series ea. **\$24.99**

292Y Featherweight™ Earphone/Mic (right) Has an earbud earphone and a tiny thumb-sized microphone/PTT switch that's built right into the 4 ft. cord. Works with Icom Q7A, Yaesu FT-10R, FT-40R, FT-50R and VX series transceivers **\$17.99**



MICROPHONES

297 Desk Microphone (left) A sensitive condenser microphone element coupled with a low-noise amplifier. Speech tailored - select SSB Mode for smooth, articulate DX punch or Full-range Mode for clear FM or AM operation. Flexible microphone boom, momentary and locking PTT switch. On-the-Air LED indicator, frequency up/down switch. Base with rubber feet is 4" w x 1-1/4" h x 6" d. Requires (2) "AA" batteries **\$69.99**

5397 Adapters for 297 8-pin or modular for Icom, Kenwood or Yaesu (specify) ea. **\$15.99**

295Y Mini Speaker Microphone (right) For popular Yaesu handheld transceivers (FT-10R, 40R, 50R, VX-1R) and Icom IC-Q7A. Uses a non-directional electret element. Transmit LED. For Icom order **295I** or **295K** for Kenwood ea. **\$15.99**



HEADPHONES

392 Communications Headphones Perfect for amateur radio and shortwave listening, and great for all modes. Superb padded headband and ear cushion design, plus it's lightweight - only 8 oz. High-performance driver units with a full 100Hz-24,000 Hz frequency response provide enhanced sound and outstanding speech fidelity. Each ear-

phone has individual volume and tone controls. Comes with gold-plated plug and 9' cord. Mono or stereo, Includes 1/4" adapter **\$19.99**

K-COM



TELEPHONE RF INTERFERENCE FILTERS

Cure telephone RF interference in the most irritating cases even when dealing with transmitters with full legal power output. Use any number of filters with no adverse effect on telephone performance.

RF-1 For single line equipment including wired or cordless phones, answering/fax machines, modems, etc. Uses standard modular connectors **\$16.99**

RF-1/2-LINE For 2-line or multi-line, multi-station electronic key phone systems..... **\$22.99**

RF-1/COILED For use when RFI enters thru coiled telephone cord between base and handset **\$22.99**

RF-2 Hard-wired, provides a wide range of installations optional to add RFI rejection at a variety of physical/electrical locations in the system; inside jacks, behind wall mounts, etc..... **\$10.99**

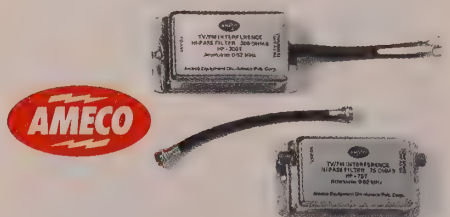
VECTRONICS®



LP-30 (right) Low Pass Filter Suppress TV interference from HF transmitters. Use between transmitter and antenna or tuner. Up to -70dB attenuation of harmonics falling in TV bands. For 52Ω, up to 30MHz and 1500W RF continuous power. **\$69.99**

LP-2500 Rated for 2.5KW continuous.. **\$129.99**

HPF-1 (left) High Pass Filter Install at TV antenna terminals. Stops interference caused by overload or harmonics from HF transmitters operating below 30MHz. High harmonic attenuation but low loss in the 52-550MHz TV passband. For 300Ω (balun and Type-F connector supplied for 75Ω)..... **\$24.99**



High Pass Filters Stop TV, FM and VCR interference caused by harmonics or overload. Installs at TV or VCR antenna terminals or connector. Sharp frequency cutoff at 52MHz with 70dB attenuation below 50MHz.

HP-300T (300Ω) or **HP-75T** (75Ω).....ea. **\$12.99**

DCI DIGITAL COMMUNICATIONS



BANDPASS FILTERS

Install between your 2m, 220 or 440MHz rig and antenna to reduce strength of out-of-band interfering signals while allowing signals you want to hear to pass through at full strength. Eliminate random squeals, squawks, beeps and strange voices from your UHF or VHF radio caused by intermodulation from strong, nearby pagers, police radio, etc. Also effectively reduces spurious emissions on transmit.

- Hear desired signals even in crowded urban centers with high-powered commercial systems
- Design: 2M/220MHz - four helical resonators with aperture coupling; 440MHz - four 1/4-wave linear resonators with aperture coupling • VSWR 1.5:1 • 200W rating • Made of extruded aluminum, copper and brass • 12w"x 3"h x 5"d • 2 lb, 11oz

146-4H Passband: 144-148; Loss <1 dB; Selectivity: -57dB @ 136MHz and -43dB @ 156MHz. SO-239 silver-teflon connectors **\$89.99**

145-2H Passband 144 to 146 MHz **\$89.99**

223.5-3H Passband: 222 to 225MHz; Loss 1 dB; Selectivity: -33dB at 233 3MHz and -28dB at 233 MHz. SO-239 silver-teflon connectors **\$89.99**

445-10C Passband: 440-450MHz; Typical selectivity: -47dB at 425MHz, -50dB at 456MHz; Loss 1dB. Type-N silver-teflon-gold connectors **\$109.99**

435-10C Passband 430 to 440MHz..... **\$109.99**

Upgrade to type-N connectors on 2m and 220MHz models - add \$10 to price; Special Order

PAR ELECTRONICS



INTERMOD FILTERS

Solve most intermod or front end overload problems from paging systems, etc. with these asymmetrical, 45-54dB notch filters. Centered on the offending pager spectrum of 152-153MHz, they work effectively with a loss of ≤0.5dB and a 1.25:1 VSWR. Works with dualbanders by providing a low-loss pass-thru of 70cm signals.

VHFDN152 2m base/mobile intermod filter, rated 50W, SO-239 connectors, 2"h x 1"d x 2½"w **\$62.99**

VHFTN152-158 Triple Cavity Similar to the VHFDN152 except it places a second notch in the 158MHz pager band in addition to the dual notch in the 152 MHz band. 2½"h x 1"d x 3"w **\$82.99**

VHFDN152HT 2m intermod filter for handhelds BNC connectors, 20W. 1½"h x ¾"d x 2"w .. **\$68.99**

UHFDN450 UHF intermod filter for base or mobile. Blocks pagers & two-way transmitters that cause 70cm intermod; transparent to 2m.. **\$62.99**

UHF-12 12" Belden RG-58/U jumper cable with silver/gold/teflon PL-259's on each end **\$9.99**



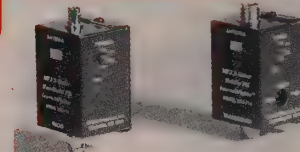
The Best General Purpose Low Pass Filter Available

Check the specs!

YA-1 1kW, 80db attenuation @ 50MHz.... **\$75.99**

www.bencher.com

MFJ MFJ ENTERPRISES, INC.



713 IntermodFighter™ Eliminate intermod in your 2M HT. Three high-Q bandpass filters and two L-sections give razor sharp selectivity to knock out interfering signals below and above 2M. BNC connectors for HT use. Self-contained, and uses a 9-volt battery. To eliminate intermodulation, remove the rubber duck and replace it with the MFJ-713. Reinstall the duck - no more intermod! RF tight, rugged aluminum case **Closeout \$39.99**

704 50Ω Low Pass Filter

Install between HF transmitter and antenna to reduce TVI from harmonics that fall in the TV band. Handles 1kW from 1.8 to 30MHz **\$49.99**



711 75Ω High Pass Filter Install at TV/VCR antenna input to reduce or eliminate interference from HF transmitters operating up to 30MHz.... **\$24.99**

RF Inquiry



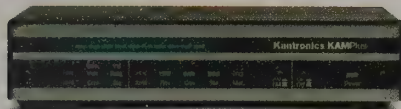
HI-Q Common-Mode™ Filters For tough RFI problems. Lowpass filters eliminate harmonic-type interference but are not capable of filtering out "Common-Mode" (differential noise energy transfer between transmitter and ground including stray capacitance). For cleaner signals, add an RF Inquiry filter. • 1.8-70MHz • -50 to -60db below 250MHz common mode attenuation • Insertion loss: less than 0.1dB • 50Ω impedance • Connectors: SO-239 teflon

CF250E-UHF 250W, .98 x 10 in. 0.5 lb. **\$89.99**

CF5KV-UHF 5kW, 2.1 x 12.6 in., 1.3 lb **\$124.99**

Used & Demo Equipment lists

Updated regularly on the web. Check them out and order **On-line**



MULTI-MODE DATA CONTROLLERS

KPC-3 Plus/128 1200 bps • Packet, GPS/APRS, Host, KISS and WEFAX modes, use with EMWIN • Personal Mailbox (PBS) now supports multiple calls • Remote access, sensing and control with two A/D and two control lines • PBS 100k, expandable with optional 512k RAM..... **\$186.99**

9612 Plus/128 1200 port and second port of 4800-38,400 bps • Most modes/capabilities of the KPC-3 Plus and POCSAG (paging) • Unique design allows the addition of another port, high or low speed • Remote access, sensing and control capability • Telemetry transmission capability... **\$369.99**

Hostmaster II+ Packet Software A great program to combine with the KAM, KPC-3plus/128 and older TNC's (not for KAM 98 or KAM XL). The program uses split screens, allows for packet and non-packet operations (with KAM) simultaneously and cuts down dramatically on the use of keyboard commands to your packet unit..... **\$89.99**

KAM 98 Single port multimode TNC for HF and VHF use • Packet, GPS/APRS, Host, KISS, WEFAX, CW, RTTY, AMTOR, PACTOR, G-TOR®, Free signal detection for HF email, A/D inputs/TTL outputs • HC11 for more processing power to accommodate future upgrades • Wider range of speeds; use 1200 bps packet on 10 meters **\$399.99**



KAM XL Multi-Mode DSP Controller Kantronics third generation multimode TNC, a state-of-the-art design giving operations on HF, VHF, and UHF, while supporting DSP modems and popular new modes of operation • Packet 300/1200bps • G-TOR • Pactor I • AMTOR ARQ (FEC, SELFEC, CCIR 476 and 625) • PSK31 • RTTY • NAVTEX/AMTEX • ASCII • WEFAX • CW • Dual-port mailbox • Remote SYSOP access • GPS NMEA-0183 compatible • Kantronics Host Mode • KISS..... **\$399.99**



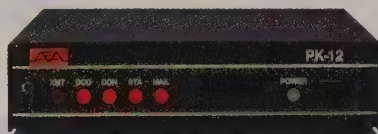
Host terminal Software – Takes advantage of true multitasking capabilities of Windows 95, 98, ME, NT and 2000. Release 1.5 with PSK-31 support.

PacTerm 98 For Kantronics' TNCs **\$79.99**

PK-Term 99 For Timewave and AEA TNCs (PK-12/96/232). Support for PK-232/PSK... **\$79.99**



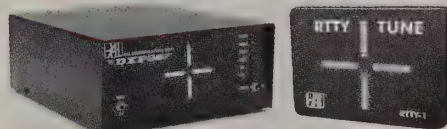
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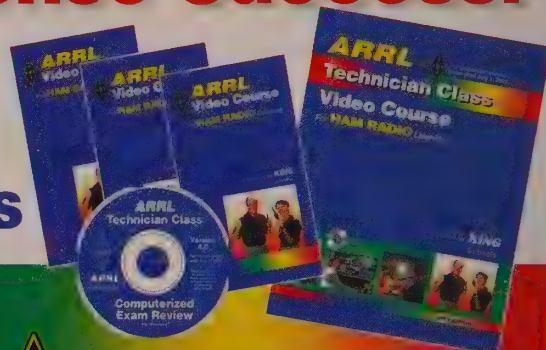


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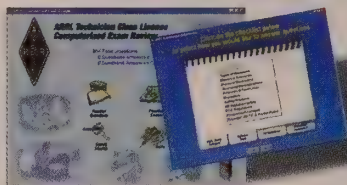
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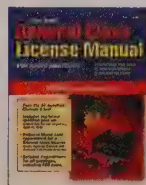
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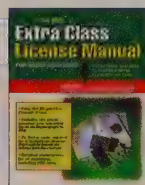
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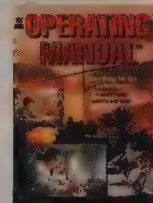
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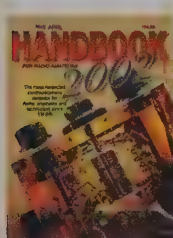
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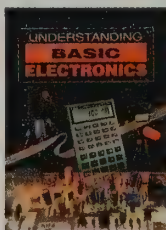


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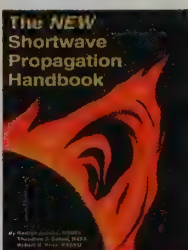


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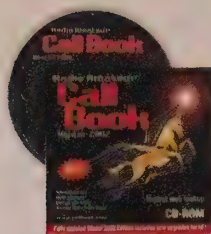
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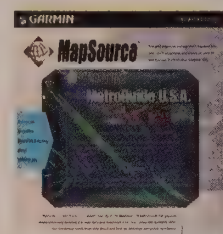


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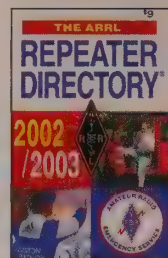
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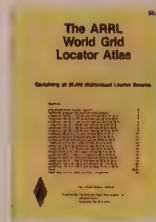
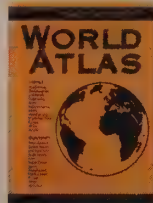


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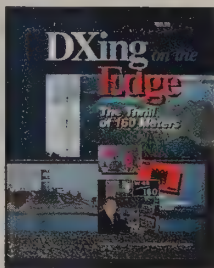
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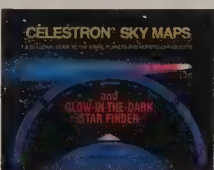


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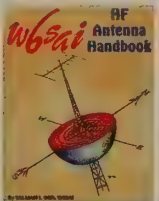
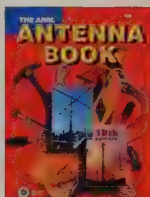
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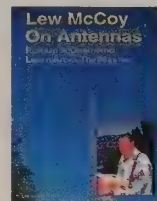


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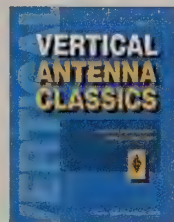


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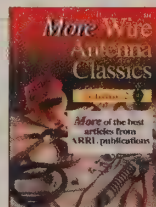
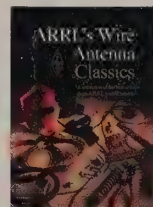
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Wire antennas ranging from simple to complex. Find one to deliver the performance you want. Dipoles, broadband and multi-band dipoles, loops, collinear, rhombics, wire beams, vertically polarized and receive antennas are all featured, even a chapter on tree-mounted antennas... **ARR 344 \$14**

More Wire Antenna Classics

Enjoy even MORE wire antennas! Filled with innovative designs from the pages of QST and other ARRL publications..... **ARR 208 \$14**

Look For This

NEW

& Check Out AES' Latest Additions.

105C 24 Hour Quartz Wall Clock Black, 10" diameter face, sweep second hand. Uses one "AA" battery..... **\$19.99**



Small 24-Hour Clocks A dual clock with separate UTC and local time display modules, and a single clock with 24 hour time only. Heavy brushed aluminum frame, 5/8" high LCD numerals, sloped face. Flashing seconds colon, battery included.

107B (left) Single, 2.25" w x 1" h x 2" d **\$9.99**

108B (right) Dual, 4.25" w x 1" h x 2" d..... **\$19.99**



112B DX'er's World Map Clock Shows time at any QTH throughout the world on an attractive LCD world map. Also shows day, month, date and year. Choose 12 or 24 hour. Daylight saving time feature. Grey, cool bile backlight for night viewing 4.25" w x 3.3" h x 2.25" d..... **\$24.99**

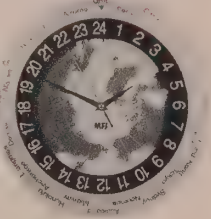


113 12/24 Hour Desk Clock Switchable 12/24 hour display • 9-minute ID timer • Alarm function • 9V battery back-up for power failures • 110 VAC, 60Hz • 9" w x 4" h x 2.5" d..... **\$19.99**

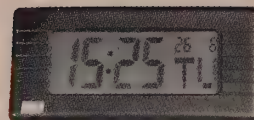
114B Giant LED 24/12 hour clock Has four huge 2.3" high digits. The 12 or 24-hour display format is visible 50 ft. away or more! Operates from 110VAC and has battery back-up feature. 6.5" h x 13" w x 1" d.... **Closeout \$44.99**



115 WORLD Map 24 hour Quartz Wall Clock Set it to GMT and you'll know what time it is in designated areas of the world any time of day. Premier cities outline the trim of the 12" diameter. Operates on "AA" battery (not included) .. **\$24.99**



116DC 12 VDC, 12 Hour LCD Travel Alarm Clock Great for motor homes and trucks! Green 5/8" LED digits show 12 hour time format. Ten minute ID buzz, two-level alarm (100dB - high) low/high @ 110dB) 9V back-up battery. Power cord with cigarette lighter adapter attached. Compact, 4.5" w x 2" h x 4" d, 17 oz. **Closeout \$9.99**



118 Jumbo LCD™ 24 or 12-hour clock 1.25" high with high contrast LCD. Shows year, month, date and day in four different languages. Includes 100 year calendar and flip stand. Uses one "AAA" batt. (not incl.). 5.75" h x 3.375" w x 0.5" d **\$24.99**



119B Giant Display™ 12/24 Hour Calendar/Clock Easily visible from 15-20' away. Shows 12 or 24-hour time, digital calendar, and Celsius or Fahrenheit temperature. Looks good in the ham-shack and all other environments. Silver/green, 8.25" w x 8.25" h x 1" d, uses (2) "AA" batteries (not supplied) ... **Closeout \$24.99**

123 Eternity Atomic Clock™

Solar powered and automatic time set by radio signals received from WWVB. Large (6.75" w x 2" h) LCD display, selectable 12/24 hour time format, digital calendar. Ordinary room light powers the solar cells and also replenishes a built-in rechargeable battery; also uses (2) "AAA" batteries (not included) for back-up power. Metallic tan, 9" w x 3.5" h... **\$79.99**



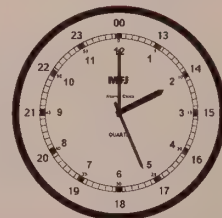
125 DX'er's Dream 24-hour Quartz Wall Clock 12" diameter face shows 24 hour format with smaller day, date and 12 hour indicators. All dials set independently as desired. Uses a single "AA" battery (not included) **\$29.99**



126 12 Hour Quartz Wall Clock A beautiful Quartz accurate wall clock with a clear, clean and highly visible 12 inch diameter face that's easily seen from 15-20 feet away. Features 12 hour digits on a clean, white

face, with a 24 hour timeline reversed in a handsome green and including red stop points and seconds digits. Operates for long periods on a single "AA" battery (not included)..... **Closeout \$19.99**

128 US Atomic Wall Clock Huge, 14 inch diameter with 12/24 hour and seconds dials on a white face. Automatically synchronizes to time signals from WWVB. Uses (2) "AA" batteries (not included) ... **C/O \$59.99**

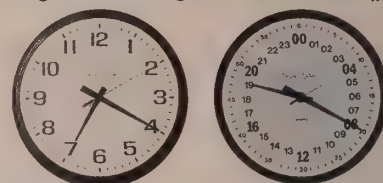


134AT (24-hour), **132AT** (12-hour) See Thru™ LCD Clock Transparent display makes the high-contrast, 1.75" digits appear to float in the air. Loud alarm/snooze function. Silver-tone, 9" w x 3.5" h. Uses 2 "AA" batt. (not incl.)... **Closeout ea. \$14.99**



152B ThermometerClock™ Shows out/indoor temp & time. Huge LCD multiple display shows 12/24 hour time and Celsius/Fahrenheit. Auto daily update of min/max temperature readings and memory function that recalls readings during a selectable period. Wall mount or desktop display. Includes outdoor sensor and 10' wire. Requires "AA" battery 5" h x 2.375" w x 0.625" d **\$24.99**

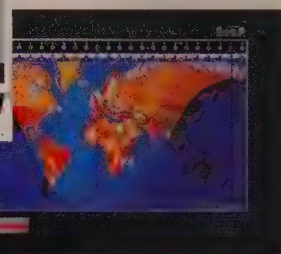
Benjamin Michael Industries
INC.



972A (left) Battery operated 12-hour time quartz controlled clock with sweep-second hand. Huge 12" dial allows excellent visibility in large rooms. Black textured case and clear glass crystal. Uses "AA" battery (not incl.). 14" dia. x 1.75" d **Closeout \$19.99**

973A (right) 24-hour version of 972A..... **\$49.99**

972AD 14" dia., 12/24 hr. wall clock, sweep-second hand. Uses "AA" battery (not included) ... **\$32.99**



STD BLK/GOLD or STD OAK/GOLD A framed, lighted world map which is a continuous belt of mylar film in constant motion synchronized with Earth's orbit. Displays current time world-wide, sunrise/set, and current season everywhere via an illuminated pattern • Allows for calculation of time in non-standard zones • Shortwave radio prefixes • Standard model in black or oak with gold trim • 3' x 2', wall mounting ... **Drop Shipped \$999.99**

Available by Special Order in numerous trims/finishes, and in 3 other models (with analog 0-60 min. scale).

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TELESCOPES

Professional Series of astronomical telescopes are engineered with unparalleled structural and optical quality. These top-of-the-line models will give many long years of reliable, dependable use and a lifetime of journeys to the stars. This series is highlighted by a professional quality format: Professional format 1.25" Kellner eyepieces • Aluminum optical tube assembly • High quality glass optic objectives • Full-length, heavy-duty, variable-height aluminum tripods • Clock drive ready deluxe metal equatorial mounting • Pro format 6x30 finderscopes • 6-point finderscope adjustments • Metal accessory trays • Pro counterweight system • Fine-adjustment controls.

78-0040 90 refractor • Focal length: 1,000 • 25 mm eyepiece • 40 magni. • Multi-coated objective lens • Flexible fine-tracking cables..... **\$439.99**

New **Voyager®** Quality Dobsonian telescopes with all metal tube assemblies & innovative mounts will satisfy anyone just getting started to the advanced amateur astronomer. The new additions include a precision rack and pinion focuser and are engineered with a 1.25" format.

78-8000 8" reflector • Focal length: 1,200mm • 25mm eyepiece • Magnification: 48 • Dobsonian mount • 6 x 30 Finderscope • 6-point finderscope mount..... **Closeout \$399.99**

Voyager® Series Engineered to exacting standards with exclusive features: the first astronomical zoom telescope • Penta mirror technology that yields right to left correct views of the night sky • High quality metal easy-track and metal equatorial mounts • Innovative adjustable aluminum tripods • Exclusive rotary power turret eyepieces.

78-2010 Penta mirror technology that yields right to left correct views • High quality metal easy-track and metal equatorial mounts • Exclusive rotary turret eyepieces • 100 x 4.5" reflector • Focal length: 500mm • 5 and 27mm Plossl eyepieces • Magnification: 18 and 100 • 1.25" format eyepieces • Precision rack and pinion focuser • Convenient shoulder strap • Pre-assembled cradle mount • Camera and tripod adaptability..... **\$139.99**



78-9440 (top) 60mm refractor • Focal length: 700 • 8, 12.5mm eyepieces • Magni.: 56, 88, 168, 263, 280, 440 • Penta mirror, EasyTrack® mount • Adjustable hardwood tripod • Erecting lens.. **\$89.99**

78-9470 (bottom) 60mm refractor • Focal length: 750 • Zoom, 8, 15mm eyepieces • Magnifications: 50, 94, 50-150, 250, 470 • Penta mirror • Easy Track® mount • Adjust. tripod **\$129.99**

78-9675 (middle) 4.5" reflector • Focal length: 900 • 4, 12, 20mm eyepieces • Magnifications: 45, 75, 135, 225, 675 • Clock drive equatorial mount • Adjustable aluminum tripod • 6-point finderscope mount • Fine tracking..... **\$229.99**

TELESCOPE ACCESSORIES

(See Price Guide to match access. to correct telescope model)

78-0101 1.25", 9mm Kellner eyepiece..... **\$29.99**

78-0102 1.25", 25mm Kellner eyepiece... **\$29.99**

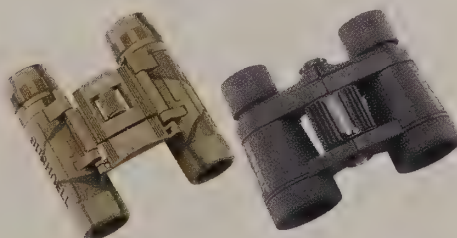
78-0103 1.25" format erecting prism **\$69.99**

78-0105 1.25" format 2x Barlow lens..... **\$39.99**

78-0106 Clock drive (DC/battery power) **\$89.99**

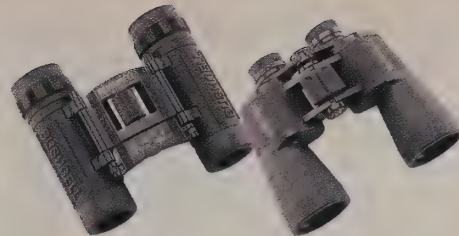
BINOCULARS

Powerview® Truly the "best of both worlds." Contemporary styling and design combined with legendary Bushnell quality and durability. The easy-to-hold and easy-to-use aspect of these binoculars also converge to make Bushnell Powerview binoculars an excellent value for the general and outdoor user. Powerview comes with soft rubber covering and the patented "Insta-Focus®" system. Each binocular comes with a neck strap and carrying case.



13-1226 (left) Compact binocular with folding roof prism. Designed in camo. Features include: 12x25 magnification • 240 ft. field of view at 1000 yds. • 2.1mm exit pupil • 9.7oz..... **\$29.99**

13-0430 (right) **LiteVision™** • 4x30 magnification • 650 ft. field of view at 1000 yds. • 7.5mm exit pupil • 7.5oz **\$18.99**



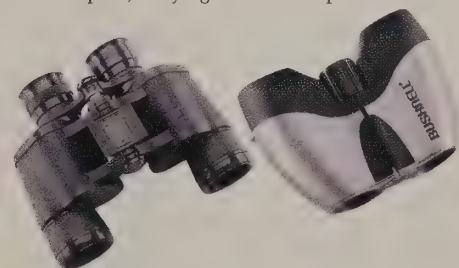
13-1250 (right) **InstaFocus®** • 12x50 magnification • Porro prism • 265' field of view (1000 yds.) • 4.2 mm exit pupil • Adapts to tripod • 27oz.... **\$59.99**

13-2514 (left) Compact, folding binocular • 8x21 magnification • Roof prism • 375 ft. field of view at 1000 yds. • 2.6mm exit pupil • 7oz..... **\$24.99**

InstaVision® This line features convenient focus free operation, amber-coated optics, & rubber armoring for durability. The InstaVision action package comes complete with a binocular belt pack case for convenient around-the-waist carrying. They also come equipped with Bushnell's exclusive Sportview® handstrap.

17-7351 Wide angle, focus-free binocular • 7x35 magni. • Porro prism • 490' field of view at 1000 yds. • 5mm exit pupil • Handstrap & belt pack included • Adapts to tripod • 21oz **Closeout \$39.99**

Falcon is feature packed and value priced. Perfect for sporting events, sightseeing, nature study, backpacking, concerts and theater. The line includes the Bushnell patented InstaFocus® focusing system, coated optics, carrying case and strap.

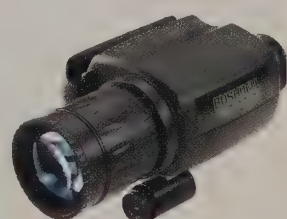


13-0721 (right) Compact binocular featuring 7x21 magnification • Porro prism • 340 ft. field of view • 3mm exit pupil • 4.7oz..... **\$29.99**

13-3410 (left) **InstaFocus®** • 7x35 magnification • Porro prism • 420' field of view (1000 yds.) • 5mm exit pupil • Adapts to tripod • 21oz..... **\$29.99**

NIGHT VISION

26-3652 Night Vision Scope Collects & amplifies existing light, allowing you to see in low-light conditions too dark for the naked eye. Included Infrared Illuminator allows operating even in complete darkness. • 3.6x image magnification • Brightness control • 52mm objective for enhanced brightness • Includes comfortable adjustable hand strap and carrying bag • Rugged construction for travel and outdoor • Requires 2 "AA" batteries (not included) • 3 lbs **Closeout \$199.99**



TELESCOPES

11011 NexStar 8 All of the standard features of the NexStar 5 with the addition of 8 inch optics with Starbright multi-coating. Offers images twice as bright as a 5" telescope. A four element fully multi-coated reducer/corrector increases the brightness to f/6.3 while reducing focal length by 37% for more visual coverage of wide field objects. Features: 8" aperture • Focal length of 2032mm • Focal ratio of f/10 • Starbright multi-coated 8" Schmidt-Cassegrain optics • Adjustable aluminum tripod • Premium 1.25" Plössl eyepiece • StarPointer™ Finderscope • AC adapter • 32 lbs..... **\$1499.99**



11052 NexStar 8 GPS The ultimate in "go-to" technology and astro-imaging, this 8" Schmidt-Cassegrain boasts an integrated GPS and electronic compass, combined with the NexStar™ system. So advanced, as it turns on, GPS and compass system automatically points to the first alignment star. Auto guider port • 2 auxiliary ports for expandable accessories • PC port/RS232 compatible • GPS align mode • 2000mm focal length (f/10) • 5-step multi-layer StarBright® coatings • 40mm NexStar Plössl (50x) • 9x50 Finderscope • Fastar compatible • External 12V DC • AC adapter **\$2499.99**



11053 NexStar 11 GPS A large aperture telescope with carbon fiber tube and integrated Global Positioning System and electronic compass. As it is turned on, the GPS and compass system automatically pinpoints exact location and points to the first alignment star. The NexStar then offers a 40,000+ object database and storage for numerous, user-defined objects. It also features database filter limits for creating custom object lists. Constructed with dual aluminum fork arms with carrying handles and a receptacle for the computer go-to tracking hand control (included). 279mm (11") dia. Schmidt-Cassegrain • 2800mm focal length • f/10 focal ratio • Premium 40mm (70x) 1.25" Plössl eyepiece • 9x50 finderscope • 9 available slew speeds • Star Diagonal • Visual Back • RS232 and multiple data ports for PC and add-on accessories • AC adapter • Adjustable height, heavy-duty, 26-pound tripod • 65 lbs..... **\$2999.99**



22062 NexStar 60GT Views of the lunar landscape, phases of Venus, Mars resolved as an orange disc, Jupiter and its 4 moons, Saturn with its rings plainly visible, some deep sky objects, plus terrestrial views. Comes with a fully-computerized hand control with database of over 4,000 objects. Includes three 1.25" eyepieces for magnifications of 35x, 70x and 175x. With a pre-assembled, adjustable aluminum tripod, the NexStar 60GT can be up and ready in a matter of minutes. A Star Pointer finderscope with red LED makes centering a breeze. • 60mm (2.4") diameter refractor • Focal length of 700mm • Focal ratio of f/12 • 1.25" star diagonal • The Sky Level I CD-ROM • 9.5 lbs..... **\$249.99**



22082 NexStar 80GT With an 80mm aperture and 3.25° field of view, the 80GT is capable of capturing the largest deep-sky objects. Provides 80%

brighter views than 60mm scopes. This short-tube, 400mm focal length, refractor telescope has 16x (25mm) and 40x (10mm) magnification 1.25" SMA eyepieces. • 80mm (3.1") dia. refractor • f/5 focal ratio • Complete "go-to" computer hand control • StarPointer™ Finderscope • 1.25" star diagonal • The Sky Level I CD-ROM • Adjustable aluminum tripod with accessory tray • 11 lbs..... **\$349.99**

31034 Tabletop 76 Small, but powerful, this ultra portable telescope is ideal for traveling & quick set-up. The handy but sturdy table top mount provides steady viewing. Features include: 76mm (3") aperture • 600 mm focal length • f/8 focal ratio • Standard 0.96" accessories include: 4mm SR (150x), 20mm H (30x) and 2x Barlow eyepieces • 5x24 right-angle Finder-scope • 5 lbs **\$99.99**



31044 Firstscope 114 High quality, economical telescope featuring a superb optical system for bright, detailed views. The highly stable equatorial mount (CG-3) has setting circles and slow motion controls on both axes to provide smooth, easy tracking. Built to provide years of performance, it comes complete with adjustable aluminum tripod and accessory tray. • 114mm (4.5") diameter aperture • 900mm focal length • Focal ratio of f/8 • Star-pointer™ finderscope • 20mm (45x) and 10mm (90x) Kellner eyepieces • 1.25" focuser • 35" optical tube • Enhanced aluminum optical coatings • 1.5" rack and pinion focusing • 45 lbs..... **\$249.99**

Look For This

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& Check Out AES' Latest Additions.



31058 G-8N A Newtonian reflector telescope with exceptional optics and a heavy duty mount with slow motion controls and setting circles for both axes. Heavenly sights come into view clearly and track easily. Comes complete with adjustable aluminum tripod and accessory tray. • 203mm (8") dia. • 1000 mm focal length (f/5) • 9 x 50 finderscope • Equatorial mount • Enhanced optical coatings • 20mm Plössl eyepiece • 20" optical tube length • 2"-1.25" rack and pinion focusing • 61 lbs..... **\$449.99**



31056 C150-HD Mounted on a rigid CG-4 equatorial mount. Counter-weight, latitude scale, setting circles and slow motion controls on axes are standard. • 150 mm (6.0") aperture • Focal length of 1000mm • Focal ratio of f/7 • Standard 1.25" accessories include: 20mm Plössl eyepiece (50x) and Focuser • 6x30 Finderscope • CG-4 EQ mount • Sturdy, adjustable metal tripod with accessory tray • 41 lbs **\$399.99**

31142 NexStar 114GT Computer compatible Newtonian reflector with a compact design and exceptional light-gathering ability. • 114 mm (4.5") diameter • 1000mm focal length (f/9) • Starpointer™ finderscope • 25mm (40X) and 10mm (100X) SMA eyepieces • Motorized mount • Computerized hand controller with "go-to" database. Includes GuideStar™ software to use with your personal computer, fully assembled adjustable aluminum tripod, battery pack and The Sky Level 1 CD-ROM... **\$439.99**



LAB GRADE MICROSCOPES

4020 Dissecting Microscope This provides an introduction to the world of micro-scropy. It uses a 45° inclined, 360° rotatable monocular head which can move up and down on the metal pillar for small or large item viewing. The eyepiece is a 10x-18mm with a 4x-58mm objective, giving 40x power. The all-metal unit comes with a 60mm black-and-white viewing plate and smooth rack and pinion focuser **\$79.99**



pinion focuser with a safety rack stop..... **\$119.99**

4030 Educational Microscope Feature-packed and a great educational tool. It has a fully coated optical system, with H10x and H12.5x eyepieces and 35mm 4x, 10x, 40x objectives giving powers of (40x, 100x, 400x) 10x and (50x, 125x and 500x) 12.5x. This unit uses positive click stops on the turret, a five aperture diaphragm, a plano-concave 50mm mirror, and a smooth rack and pinion focuser with a safety rack stop..... **\$119.99**



with electrical illumination with a tungsten 20w bulb and .65 single lens condenser. Powers are 40x, 100x and 400x using the 10x eyepiece ... **\$199.99**

4050 Biological Microscope Using fully coated optics, with a mechanical tube length of 160mm, its achromatic objectives promises great observing sessions. The unit has a monocular 45° inclined, 360° rotatable head, positive click stop nosepiece with three objectives, 4x, 10x, 40x, a metal 110mm x 120mm stage and a five aperture diaphragm. It uses coarse and fine focus



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SPOTTING SCOPES

50025 30mm Mini Brass Scope A unique, lightweight and versatile spotting scope with a magnification of 15x and total weight of just 4 oz! This special scope has an attractive black finish with brass accents and comes with a mini tripod. Fully coated optics, remarkable 3.5° field-of view. For traveling, this ultra compact spotter comes with a case for secure transporting. It also makes an excellent gift for tabletop or desk display **\$59.99**



52200 (top) 60mm Pro Zoom Spotting Scope This powerful spotting scope's large 60mm aperture makes it perfect for bird watching, photography, nature study, hunting or scenic observing. Carefully crafted, multicoated optics provide excellent contrast and clarity, and the standard lens hood reduces glare. Zoom and focus controls are exceptionally smooth, convenient and easy to use. The ability to zoom from 15 to 60 power with speed and precision means you'll be able to focus on and follow interesting subjects with ease. • 24' near focus at 15 power • 15mm eye relief at 15 power • 30° field of view at 15 power **\$199.99**

52211 (bottom) 60mm Wildlife Zoom Spotting Scope A great all-around optic designed to perform well in a range of viewing situations. Great for bird watching, observing nature and long distance spotting. The focus and zoom controls are easy to use and well placed for fast, convenient image acquisition. It offers long eye relief of 33mm at 15 power. With fully coated lenses, it's totally reliable and an excellent performer. • Power range that zooms from 15 to 45 power • Near focus: 42' at 15 power • Field of view: 2.25° at 15 power • Mini table tripod and carrying case included • 25 oz..... **\$169.99**



NOCC-3 Cyclops Compact™ Precision optics in the smallest, lightest, full-featured night scope. Unique self-contained device with powerful integrated infrared illuminator. • Image Tube Gain: 15,000 • Magnification: 3.1 • FOV @ 1000 yards: 628' • Focusing range: 8' to infinity • Power: 2 "AA" batteries • 7.2" x 2.4" x 3.2" • 16 oz **\$199.99**

AMATEUR ELECTRONIC SUPPLY

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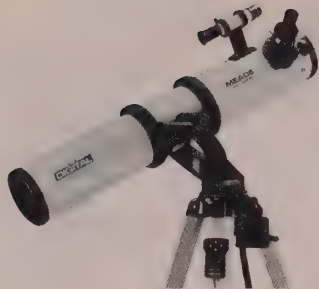
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DIGITAL ELECTRONIC TELESCOPES

All models in this line come with a full length, aluminum, adjustable tripod with accessory shelf.

20061 DS-60EC 60mm Altazimuth Refractor Ideally suited to beginning astronomers or terrestrial observers • 5x24mm viewfinder • Multi-coated, achromatic objective lens (D=60mm, F=700mm f/11.7) • Two 1.25" eyepieces: MA25mm, MH9mm • Rack-and-pinion focuser with sleeve lock and eyepiece holder • Altazimuth mount with variable-tension locks on both axes • StarNavigator™ PC software (database of over 10,000 celestial objects) • Includes the dual-motor electronic control system (EC). This system comes with a control panel and 4-speed electronic controller. Runs on 10 "AA" batteries (not included) • 10 lbs..... **\$169.99**

20071 DS-70EC 70mm Altazimuth Refractor The multi-coated 70mm optics capture 136% more light than the similar looking 60mm. • 5x24mm viewfinder • 2 eyepieces (MA25mm, MH9mm) • Dual-motor electronic control system (EC) with 4-speed electronic controller • 2" rack-and-pinion focuser with sleeve lock • 1.25" and 2" eyepiece holders • Achromatic objective lens (D=70mm, F=700mm f/10) • Altazimuth mount with variable tension locks on both axes • StarNavigator™ PC-compatible software (database of 10,000+ objects) • 10 AA's required • 11 lbs..... **Closeout \$149.99**



20091 DS-90EC 90mm Altazimuth Refractor (left) The ultimate scope for high-definition imaging. Ideal for deep-space observations of galaxies and nebulae. • 6x30mm viewfinder • Two eyepieces (MA25mm, MH9mm) • Multi-coated, achromatic objective lens (D=90mm, F=1000mm f/11.1) • Rack-and-pinion focuser with sleeve lock with 1.25" and 2" eyepiece holders • Altazimuth mount with variable-tension locks on both axes • Cradle ring assembly • Dual-motor electronic control (EC) system • Star-Navigator™ PC-compatible software (database of over 10,000 celestial objects) • Ten "AA" batteries required • 15 lbs..... **\$299.99**

20114 DS-114EC 114mm Newtonian Reflector (right) The 114mm aperture greatly enhances viewing structural galaxy, nebula or stellar detail. • 6x30mm viewfinder • Two 1.25" eyepieces (MA25mm, MH9mm) • Aluminized and multi-coated primary mirror and matching elliptical flat secondary mirror (D=114mm, F=910mm f/8) • Rack-and-pinion focuser with sleeve lock with 1.25" and 2" eyepiece holders • Altazimuth mount with variable-tension locks on both axes • Cradle ring assembly • Dual-motor electronic control (EC) system • Star-Navigator™ PC-compatible software (database of over 10,000 celestial objects) • Ten "AA" batteries required • 18 lbs..... **\$269.99**

ASTRONOMICAL TELESCOPES

0705-04-01 ETX-70AT 70mm Achromatic Refractor Excellent portable for beginners. Observe major planets easily. Also great for birdwatchers or naturalists. • 2 eyepieces (MA 9mm/39x and MA 25mm/ 14x) • Multi-layer coated, achromatic optical tube assembly (D=70mm, F=350mm f/5) • Internal flip-mirror system for either straight or 90° observing • Fork mount with electric slow motion controls, setting circles and locks on both axes • Electronic control panel • 9-speed, dual-axis motor drive system with Autostar™ control • Sidereal-rate tracking • Requires 6 AA's • Includes #882 tripod • 7 lbs..... **\$349.99**



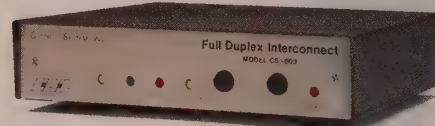
3514-03-04 ETX-90EC 96mm Maksutov-Cassegrain (left) The perfect ultraportable field telescope. • 8x21mm erect-image viewfinder • Series 4000 Super Plossl 26mm eyepiece (1.25") • Super multi-coated optical tube assembly (D=90mm, F=1250mm f/13.8) • Internal flip-mirror system for straight or 90° observing • Fork mount with electric slow-motion controls, setting circles and locks on both axes • Electronic control panel • 4-speed (8x, 32x sidereal, 0.75°/sec, 5°/sec), dual-axis motor drive system with electronic hand controller • 8 "AA" batteries required • 9.2 lbs..... **\$495.99**

0515-03-01 ETX-125EC 138mm Maksutov-Cassegrain (right) Same as above, but with larger optical assembly (D=127mm, F=1900mm f/15) and 8x25mm right-angle viewfinder. • 19 lbs **\$895.99**



INTERCONNECTS

Fully automatic interface between an FM base radio and phone line to initiate and receive phone calls on a mobile or HT without assistance. Each contain powerful, microprocessor-controlled features such as 90 memory speed dialer, redial, built-in programming keyboard and digital readout, remote base mode, regenerated tone or pulse dialout, CW ID and toll restrict.



CS-800 Full Duplex Interconnect Operates full or semi-duplex and also has a built-in repeater controller. Simply connects to transceiver mic and speaker jacks. FCC and DOC approved. 12-15 VDC. 7.875" w x 7.5" d x 2" h, 2.5 lbs..... **\$369.99**



CS-900 Control Station Simplex Interconnect For use with any simplex transceiver. Also use thru remotely located repeaters (from base) for added range. Digital voice delay standard. Connects to mic and speaker jacks of simplex transceiver. FCC and DOC approved. (Transceiver switching speed does not affect performance) 12-15VDC 7.9" w x 7.5" d x 2" h, 2.5 lbs..... **\$369.99**



PROSTAR® 1000 VHF/UHF/FM Antennas Features die-cut impedance correlator that allows close spacing of antenna elements. Manufactured from high tensile aluminum for a strong, compact antenna that will better withstand strong winds and ice loading. Aluminum is protected with high-quality polymer finish. All models similar in looks.

PR-7010 Metropolitan 22 active elements (9 VHF, 13 UHF) • 66.5" boom **\$39.99**

PR-7032 Far Suburban 33 active elements (13 VHF, 20 UHF) • 103.25" boom **\$64.99**

PR-7042 Fringe (top) 43 active elements (17 VHF, 26 UHF) • 149.75" boom **\$99.99**

SM-2200 Scanner Antenna Vertically polarized, omni-directional pattern. Pass band covers LO, HI and UHF public service bands, including Marine and Aircraft. Coated with a high quality polymer to prevent surface oxidation in any weather. Mounts below TV antenna or on separate mast. Includes 50' of 75Ω coax with F-connectors attached **Closeout \$45.99**



We accept I.M.P.A.C.® Government Credit Cards

TERK

STEREO ANTENNAS

AF-9330 AM-FM Tower Antenna
Built-in amp with gain control improves AM and FM reception. Works with tuners and receivers with 75Ω or 300Ω FM antenna inputs. The AM connection consists of a pair of wires with U-clips. Useful 30-40 miles from the broadcast transmitter **\$24.99**



AM-1000 External AM Antenna A passive, fully adjustable 530-1600kHz AM broadcast antenna that improves reception over built-in loops. It is used unattached, next to the radio. Position for best reception, then rotate the tuning dial located at the center of the antenna to match the AM frequency tuned in on the radio. For best performance, it may be connected directly to an external AM antenna input **\$49.99**



AF-9925 Powered Stereo Antenna AM-FM (pi) Gamma Loop® FM circuitry improves FM receiver performance by receiving FM frequencies only ... no noise! Receives more local and distant stations while eliminating multipath interference and distortion. Outstanding AM reception too! **FM section:** Operating Band: 88 - 108MHz • Amplifier Gain Range: Adjustable, -20 to +42dB, 3dB N.F. • Pickup Pattern: Omnidirectional • Impedance: 75Ω adaptable to 300Ω input with matching transformer included **AM section:** Frequency Range: 500-1700kHz • Gain: +15 dB, 1.5dB N.F. • Output: Twin-lead independent circuitry • Impedance: 75Ω adaptable to 300Ω input with matching transformer included **\$49.99**



CLIP-ON TV ANTENNAS

TV-42 Terk's amplified clip-on antenna attaches in minutes to any 18" satellite dish and complements it by adding reception of all local VHF/UHF channels. It covers channels 2-83 and FM broadcast The antenna contains an internal 10dB amplifier that minimizes signal loss so signals may be distributed to multiple television sets. Power is supplied by your DSS receiver, thru the cable. 10.25" h x 21.25" w x 3.5" d. Durable powder-coated element and weather-proof amp housing. For Dual-LNB dishes, the TV-42 has two built-in diplexers that provide more than one TV set with DSS signals from the dish and VHF/UHF television signals from the antenna **\$59.99**

AMPLIFIED OUT/INDOOR TV ANTENNAS

TV-50 (top) Only 76" w x 2.5" h x 1.25" d, mounts almost anywhere inside or outdoors. Horizontally polarized single element VHF and UHF dipoles provide multi-directional TV/FM reception over the 54-806 MHz range. For weaker stations, a built-in ultra low-noise 10db amplifier can be switched in for improved reception. Powers from a supplied 12V adapter which terminates in a box containing an On/Off switch, connectors and a cable that goes to the TV. Includes 30', 20', 6' and (2) 3' cables, combiner/diplexer, splitter/diplexer, coaxial barrel connector and rubber insulators. The diplexers let you run signals from both a satellite dish and the TV-50 to your TV using a single cable **\$79.99**

TV-55 (bottom) Uses a helical, coiled broadband single element engineered for clear, powerful reception of HDTV broadcasts. Receives both UHF & VHF frequencies from 54-806 MHz. Built-in ultra-low noise 10dB amplifier can be switched in or out for best reception. Mounts inside or outdoors, only 46" w x 3.5" h x 2.25" d. Includes a 12V adapter and mounting hardware **\$89.99**



LIGHTNING PROTECTION

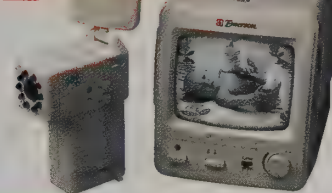
TSP-6 Surge Protector Protects satellite, CATV/antenna, phone, fax, and modems from damage caused by surges and spikes while providing constant EMI/RFI noise filtering. • Resettable circuit breaker • Surge and ground protection LEDs • Auto shut off if protection is destroyed • 8 outlets with safety covers (3 wide spaced) • 6' power cord with slim-line plug, 6' TV/satellite and phone cables • Rated 125V @ 1 Amps, 1875W **\$39.99**



NETWORK SYSTEM

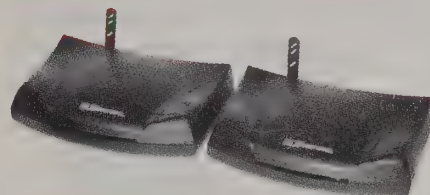
LF-20 The Leapfrog Wavemaster 20 System Transmits picture and sound from your main TV to anywhere in your home. Eliminates the need for expensive and difficult-to-install in-wall wiring. Operates on 2.4GHz for reliable reception up to 100 feet away. It features both standard RF connectors and coaxial (RCA) jacks, for connection to any type of TV set, new or old, as well as audio or audio/video components **\$89.99**

Emerson



EVO-6500 900MHz Wireless Portable Video Observation System with 5" Monitor Set includes one 900MHz camera/transmitter and one 5" black-and-white monitor/receiver. Closed circuit monitoring systems lets you keep an eye on your private property, baby's room, or business. It's fully wireless - transmitting audio and video signals up to 300 ft. (150 ft. thru walls, floors, ceilings). The battery or AC operated camera features: wide-angle lens, infrared LED's for operation in 0 lux environments, two selectable channels (allowing use of multiple cameras), A/B channel selector, built-in mic, tripod and wall mount. Camera: 2" x 3.75" x 5.5" Monitor: 6" x 8.25" x 6.25" **Closeout \$169.99**

EVO-6550 Second camera **Closeout \$69.99**



EVS-5000 2.4GHz Wireless Audio/Video Sender Set includes a 2.4GHz transmitter and a 2.4GHz receiver • Four selectable PLL channels minimize interference and allow use of multiple systems in the same area • Transmits DSS, DVD, CATV, CCD, camcorder, and VCR stereo audio and video signals throughout your home • Up to 300 ft. range (150 ft. through walls, floors and ceilings) • Special antenna design prevents multi-path distortion • Super high S/N video output • Includes 110V AC adapters and RCA cables • 6.25" x 6.25" x 2.75" **\$79.99**



TV GUARDIAN Foul Language Filter A small computer that easily connects between your television and VCR. It continually monitors the closed-captioning embedded in the video signal and references each word against an internal directory of over 100 offensive words and phrases. If a word in the directory is detected, the audio is muted. It also removes the offensive word from the closed-captioning and replaces it with a profanity-free version. Three filter settings: Off, Tolerant Mode and Strict Mode. Three closed-caption options: Off, Display Text During Mute Only and Full-Closed Captioning. All settings and cable connections are capable of being secured under lock and key **\$89.99**



We accept I.M.P.A.C.® Government Credit Cards

HT RANGE EXTENDERS

1714 Long Ranger™ 2M Halfwave For really long range, this MFJ end-fed half-wave is hard to beat. It out performs a 5/8 wave on a handheld because it does not need a ground plane. The 1714 is shorter (40" extended), lighter, has more gain & places less stress on your antenna connector. When collapsed (10.5"), it performs like a rubber duck... **\$16.99**

1712 Dual Bander™ 2M and 440MHz New dualband handheld or separate units? One antenna fits all. It's 1/4 wave for 2m and 5/8 wave with gain for 440MHz. 7.25" collapsed, 19" extended..... **\$14.99**

1710 Pocket Linear™ 3/8 Wave, 2M Carry in your pocket like a ballpoint pen. When using your rubber duck, on the fringe and noisy, put on the Pocket Linear, extend to 24.5" and carry on your QSO. Pocket clip. 5.25" collapsed..... **\$9.99**



RUFFRIDER™ MOBILE ANTENNAS

(mounts not included)

This series features quality construction using precision machined components. Designed to battle the elements, rugged rides and highway abuse.

Dual band 144/440MHz mobiles have stacked stainless steel elements with high-Q phasing coils resulting in outstanding gain. Phased radiators flatten radiation patterns and concentrate transmit power at the horizon for maximum distance.

All models are factory tuned for SWR less than 1.5:1 and have 50Ω impedance. Each comes w/SO-239 base, but also includes a **FREE** NMO adapter.

1402 Junior 16.5" antenna fits in any garage on any vehicle. Unity gain on 2M, 3dB gain on 440 MHz. Handles 100W. No fold-over **\$34.99**

1412 High Power Only 40" long but handles a full 200W. Great for high power mobile & amp. 3dB on 2M, 5.5dB on 440MHz **\$49.99**

1422 High Gain 41.5" long giving you extra gain with little increase in height. Handles 150W. 3.2dB on 2M, 5.7dB on 440MHz **\$49.99**

1432 Highest Gain Tall 62.5" brute gives you a whopping 5dB gain on 2M, 7.6dB gain on 440MHz. Handles 150W..... **\$69.99**



1622 Apartment Antenna (top) Operate 40–10M, 6M and 2M, up to 300W P.E.P. Tuning is accomplished by changing the tap on the highly efficient air-wound coil and adjusting the counterpoise for best SWR. Its universal mount/clamp lets you easily attach it to window frames, balconies and railings. It also works great indoors mounted to a desk, table or bookshelf. The 5.5' radiator collapses to 2.5' for easy storage and carrying. It includes 50' of coaxial cable, RF choke balun, 50' of coax, counterpoise wire and safety rope..... **\$89.99**

1624 HF Mini Bugcatcher Operate 40–6M, up to 300W P.E.P. Tune by changing the tap on the efficient air-wound coil and adjusting the counterpoise for best SWR. The 5.5' whip collapses to 2.5' for storage/garage. Use trunk lip, mirror, luggage or tri-mag mount **\$79.99**



1778 MFJ's G5RV Antenna Covers 80–10M bands and 160M operated as a Marconi with a tuner and ground connection Shorter than an 80 meter dipole – 102 ft. long. flat top with a length of twin-lead matching section. Requires 50Ω coaxial feed line. Use as an inverted vee or sloper where space is a problem. Full legal power limit. Coax cable not included **\$39.99**

1910 Telescoping Fiberglass Mast (right)

Great for portable and temporary use – traveling, camping, hotels, hamfests, field day, DX-peditions. Use to construct loops and quads. Pull out each section and twist to lock, strong fiberglass, flexes to resist breaking. Extends to 33' and collapses to 3.8' Bottom section 1.75" diameter. 3.3 lbs **\$79.99**

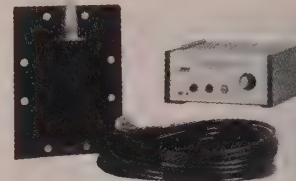
1899T Walkabout™ Multi-band Telescopic Antenna Designed specifically for the Yaesu FT-817 multi-mode HF/VHF/UHF portable transceiver or other QRP portables. Covers all bands (including WARC bands) from 80 to 6 meters. Power rating is 25 Watts. When fully extended it is just over 5' long and is fitted with a BNC connector. Band changing is achieved by plugging a lead into the appropriate socket on the base coil, and fine tuning using the 10-section telescopic whip. The whip unscrews from the base matching coil, so, collapsed, the antenna measures only about 8 inches **\$129.99**



We accept I.M.P.A.C.® Government Credit Cards



1020C Indoor Active Antenna 300 kHz–30MHz; 5 bands. Telescoping (21") antenna provides good signal strength. Functions as a preselector when using an external antenna – minimizes intermod, improves selectivity, reduces noise. Uses 9V battery, 9-18V DC or 110V. 5"w x 2"h x 6"d **\$79.99**



1024 Outdoor Active Antenna For 50kHz to 30 MHz reception. Separate RF amp module with 54" whip mounts outside, interconnect made by supplied 50' coax to control unit, containing gain control and 20dB attenuator. Select between 2 receivers & auxiliary antenna. Auxiliary in/output jacks. 12VDC or 110VAC. Control: 6"w x 2"h x 5"d, Module: 3"h x 4"w x 4"d **\$129.99**



Lakeview Co., Inc.

WD4BUM HAMSTICKS® Two-Piece

Monoband Mobile Antennas Hamstick 75 thru 10 meter models consist of a 47 inch long x 1/2 inch diameter fiberglass base section with the loading coil wound over its length and covered with black PVC shrink tubing. It's fitted on one end with a 3/8" X 24 brass base fitting that fits most amateur mobile mounts. A black 48 inch tempered stainless steel whip telescopes into the top of the base section and provides for frequency adjustment. The 6 meter model has a 34 inch base section and whip. Convenient frequency vs length graphs are included with the instructions.

If the antenna shows a SWR of 1.5 to 1 or better, no matching should be necessary. However, if it is, which may be especially true on 40 and 75m, you can capacitively match the base using values recommended in the instructions. If you frequently change bands you can use the **WD4BUM INDUCTI-MATCH (IM-1)** which consists of an impedance matching coil that simply installs at the base of the antenna. Using the supplied clip lead, you just tap up the coil for the best match.

Models

9106 (6M) **9110** (10M) **9112** (12M)

9115 (15M) **9117** (17M) **9120** (20M)

9130 (30 M) **9140** (40M) **9175** (75M)

All Hamsticks each **\$24.99**

901 Dipole Mount for 2 Hamsticks **14.99**

IM-1 Inducti-Match **17.99**

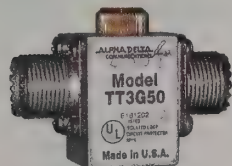
TM-1 License Plate Mount 3/8" x 24... **44.99**

TM-1 PLUS License Mount SO-239... **44.99**

It Doesn't take a DIRECT HIT!

Dangerous static charges measuring 1000s of volts can be developed from local thunderstorms, high wind driven snow or sand, so potent they can actually puncture the dielectric of coaxial cable. Solid-state transceivers and other equipment in your ham shack are very vulnerable to these high-voltage charges so you should take every precaution to protect your equipment and shack from possible serious damage and, ALPHA DELTA has the answer!

Special Arc-Plugs are used in ALPHA DELTA's Coax Switches, Surge Protectors and DELTA-C Center Insulator which "bleed off" slow rising static electricity charges from the feed line, routing them harmlessly to ground. This is far more effective than DC grounded baluns or chokes. But, even as effective as these devices are, you still need to pay attention to proper grounding procedures as outlined in the ARRL Handbook and other technical publications.



**Lightning
Surge/EMI
Protectors**

UL LISTED – Certified protection for your equipment from lightning and static charges much more effectively than low-cost air-gap types.

The heart of this protector is an Arc-Plug™, two electrodes hermetically sealed in a gas filled ceramic cylinder. Acting like a voltage dependent switch, the Arc-Plug™ can repeatedly carry large currents for brief periods of time. If an excessive voltage appears on the feedline line, due to lightning or static charges, the Arc-Plug™ is energized, forming a momentary arc and discharge to ground which protects your valuable equipment from damage.

After repeated zaps, the Arc-Plug™ may need replacing as indicated by an increased VSWR or reduced receive signal strength. A top mounted "O" ring sealed knurled knob allows easy access and replacement of the Arc-Plug™ without tools.

If you are running control voltages through the coax, the impedance compensated thru-line cavity design allows it to pass thru, instead of having to "wire around" as with some other DC-blocked designs.

Wide Frequency Range: DC thru 3 GHz, much wider than narrow band DC blocked or stub designs.

Low Insertion Loss: 0.1dB @ 1 GHz, 0.2dB @ 2 GHz, and only 0.5dB @ 3GHz, typical.

4 Models:

ATT-3G50* has Type-N females connectors, rated up to 3.0 GHz and 200 Watts **\$59.99**

ATT-3G50U* has UHF female connectors, rated up to 500MHz and 200 Watts **\$49.99**

*2000 Watt version available at No Extra Cost.

Specify ATT-3G50HP or ATT-3G50UHP

Antenna Insulator Kit with Protection

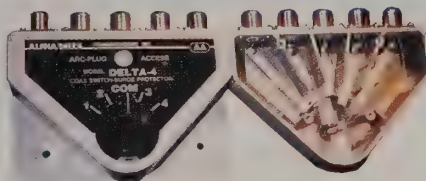


Highest quality Center and End Insulators, ideal for all types of wire antennas using either coax or balanced feed line, and up to full legal power. Made from an extremely rugged UV and RF resistant material that is virtually unbreakable. Stainless steel hardware used in the center insulator, and all internal connections are hard soldered. A built-in replaceable Arc-Plug™ provides surge protection.

DELTA-C Antenna hardware kit **\$29.99**

DELTA-CIN End-insulator, only.....each **\$1.99**

Lightning Surge Protected Coaxial Switches



DELTA Features:

- High Quality custom design featuring a rugged Cast Aluminum Housing.
- Constant impedance micro-strip cavities that provide very low-loss and high isolation through the UHF frequencies.
- Rated for Full Legal power.
- A solid positive detent roller bearing switch snaps positively into each position.
- An Alpha Delta Arc-Plug™ Cartridge provides continuous surge protection. If needed, it is easily replaced from the front without disassembly.
- Automatic grounding of the unused antennas to reduce antenna interaction, noise and the effects of lightning.

4 Models:

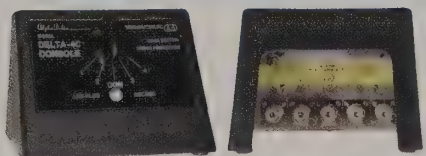
DELTA-2 2-position, with SO-239 connectors and rated for operation up to 500MHz **\$49.99**

DELTA-2/N 2-position, with N-type connectors, rated for operation up to 1.3GHz..... **\$64.99**

DELTA-4 4-position, with SO-239 connectors, rated for operation up to 500MHz **\$79.99**

DELTA-4/N 4-position, with N-type connectors, rated for operation up to 1.3GHz **\$89.99**

Lightning Surge Protected Console Coax Switches



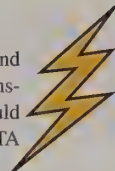
- The switch mechanism and features are the same as in the DELTA-4 models above.
- Built into a heavy 3/16 inch thick cast aluminum console weighing a hefty 2-3/4 lbs.
- The attractive, no nonsense design sits conveniently right on the operating desk and stays put.

2 Models:

DELTA-4C CONSOLE with SO-239 connectors, rated for up to 500MHz..... **\$139.99**

DELTA-4CN CONSOLE with type-N connectors, rated for up to 1.3GHz..... **\$149.99**

Limited Space Slopers

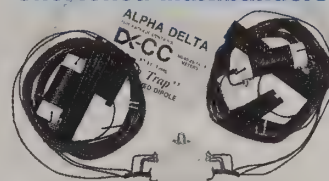


- Proven 1/4-wave sloper DX Performance
- Alpha Delta "ISO-RES" inductors replace lossy traps and capacitors, handles Full Legal Power.
- Factory assembled using insulated #12 copper wire, stainless hardware and 50 ft. of nylon rope.
- Direct 50Ω coaxial feed, no tuner required. See our web site for sloper installation requirements.

DX-A A top performing 1/4-wave Twin Sloper 160, 80 and 40 meter DX antenna. Combines the DX firepower of the 1/4-wave sloper with the wide bandwidth of a 1/2-wave dipole. Installs like an Inverted-V. The length of the legs are only 67 ft. and 55 ft. long **\$59.99**

DX-B A single wire high performance 1/4-wave DX Sloper with for 160, 80, 40 and 30 meters. Limited space. Installation requires only 60 ft. of space for amazing DX performance with the feed-end at 35 ft. and the low end only 8 ft. above ground **\$69.99**

Shortened Multibanders



- Alpha Delta "ISO-RES" inductors replace lossy traps and capacitors • Full Power operation
- Direct 50Ω coaxial feed, no tuner required except for extended frequency coverage.
- Factory assembled with insulated #12 copper wire, stainless hardware and 50 ft. of nylon rope.
- Uses a DELTA-C Static Protected center insulator and DELTA-CIN end insulators.
- Install Horizontally as an Inverted-V.

5 Models:

DX-CC Covers 80-40-20-15-10M, 82 ft. long... **\$119.99**

DX-DD Covers 80-40M, 82 ft. long..... **\$89.99**

DX-EE Covers 40-20-15-10M plus 30-17-12M using a wide range antenna tuner, 40 ft. long **\$99.99**

DX-LB 160-80-40M, 100 ft. long. Typical bandwidth for 2:1 VSWR: 160M-20kHz, 80M-40kHz, 40M-300kHz. Full coverage using a wide range antenna tuner **\$119.99**

DX-LB PLUS 160-80-40-20-15-10M..... **\$149.99**



Full-Size Monoband Dipoles

- 50Ω coax feed, full power
- Install Horizontally or as an inverted V
- Factory assembled with #12 insulated copper wire, DELTA-C static protected center insulator, DELTA-CIN end insulators and 50 ft of nylon support rope.

3 Models:

DX-80 75/80 meters, 134 ft. long..... **\$49.99**

DX-40 40 meters, 67 ft. long **\$39.99**

DX-20 20 meters, 34 ft. long **\$39.99**

ALPHA DELTA COMMUNICATIONS, INC.

AA

alphadeltacom.com



The Performance Antenna

We Make it Simple ... But GOOD!

Most mobile antenna installations are notoriously inefficient and complex to install. Some are so big and cumbersome, they need guy ropes and special mounts to handle the wind load when under way. Some are single band only, others need a bag full of resonators for multi-band operation. Whips with automatic tuners or "screwdriver" types are nice, but even more cumbersome to install, usually requiring extra wiring and a controller.

The OUTBACKER eliminates these "big antenna" problems while providing efficient, multi-band performance in a rugged, lightweight, single whip design. Its sleek, low profile design allows use with standard 3/8-24 bases and trunk-lip mounts.

Fiberglass shaft construction, using a pre-tuned copper helical winding with clearly marked brass band taps at points along its length. A final coating of smooth epoxy resin and polyurethane, gives the OUTBACKER a toughness and durability not found in other brands, while making a really good looking mobile installation.

Changing bands is a snap; simply plug into the desired band tap and resume operating without changing whips, resonators, or re-tuning.

MODEL	BANDS	POWER	LENGTH	PRICE
OB-8	75-10M + WARC	300W P.E.P.	6 ft.	\$279.99
OB-8HP (HIGH POWER)	75-10M + WARC	500W P.E.P.	6 ft.	\$299.99
OB-S8*	75-10M + WARC	300W P.E.P.	6 ft.	\$299.99
*Breaks down into two 3 ft. sections, includes a cloth carrying pouch				
OB-8TRI	Same as OB-S8 except it breaks down into three 2 ft. sections, pouch included			\$329.99
PERTH*	75-10M + WARC	150W P.E.P.	7.5 ft.	\$289.99
*The Most Efficient model for HF Mobile				
PERTH PLUS*	75-10 + 6/2M + WARC	150W P.E.P.	6 ft.	\$299.99
*Perfect for HF Radios with added 6 & 2 meter capability				
STEALTH PLUS*	75-10 + 6/2M + WARC	100W P.E.P.	4 ft.	\$269.99
*Perfect for HF Radios with added 6 & 2 meter capability				
OUTREACH*	160-10M + WARC	300W P.E.P.	12 ft.	\$399.99
OUTREACH 500*	80-6M + WARC	600W P.E.P.	12 ft.	\$439.99
*OUTREACH and OUTREACH 500 perfect for use with the OUTPOST, below				
OB-M*	Marine/HAM*	300W P.E.P.	6 ft.	\$429.99
*Marine: 2.182, 4.1, 6.2, 8.2, 12.4, 16.5, 22 MHz • HAM: 75, 40, 20, 17, 10M				
Joey	New for the FT-817 and other QRP rigs – full description at right			\$249.99

ALPHA DELTA OUTPOST Tripod Mount / Ground Coupler



- A convenient method of utilizing OUTBACKERS for Base/Portable operation.
- Compact, fold-up design sets up quickly and collapses in seconds; no holes, no concrete!
- 36 x 3 in. blades on each leg unfold and lie flat providing increased ground coupling for a better impedance match and increased radiation efficiency.
- A mobile-type mount on top accepts a 3/8" x 24 antenna stud and PL-259 connector.
- A fold-over top bracket, allows the antenna to be easily removed or folded down for changing bands, or to be out of view.
- Rugged 6061-T6 aircraft aluminum members, 18 lbs. Stainless steel hardware and wing nuts, comes all assembled.

\$199.99

alphadeltacom.com



the OUTBACKER Joey Portable Antenna

Added performance for the FT-817 and other QRP rigs

- Utilizes the famous OUTBACKER band tap system for the ultimate band changing convenience
- Covers complete HF/VHF range from 80 thru 2M, including 30, 17 and 12M
- Separate taps for 80 CW and 75 SSB
- Rated at 20W, all modes.
- The antenna has a 30 in. body and a 20 in. stinger when fully extended.
- Complete with a 12 ft. durable copper braid counterpoise, and a custom anti-twist 90 degree SO-239 to PL259 adapter.
- Weighs just over 1 lb **\$249.99**

ALPHA DELTA

MicroMount Lightweight Miniature Desktop Tripod



- Ideal for the Joey!
- 8 in. tall (fixed), 12 in. footprint
- Adjustable pan head mount
- 12 ft. counterpoise
- 12 in. velcro strap or securing to various objects.
- Collapses for convenient portability.

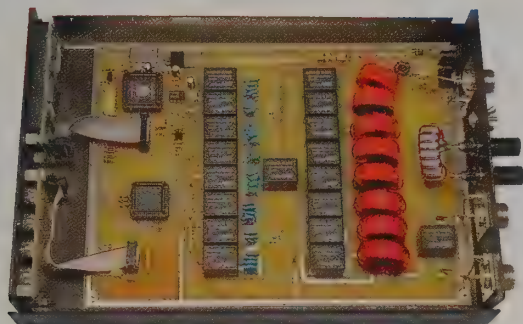
\$49.99

NEW!

ALPHA DELTA COMMUNICATIONS, INC.

AA

PathFINDER Digital Automatic Antenna Tuner



No More "Fiddling" with a Manual Tuner. The PathFINDER seeks the Correct "Path" to Proper Antenna Tuning and Does it Automatically with Digital Readout.

- Matches ALMOST anything!
- Continuous coverage tuning: 1.8 to 30 MHz plus 6 meters.
- Perfect for Amateur, MARS, Government and Military!
- Fully Automatic – everything runs under Microprocessor Control!
- Switched L/C combinations – tuning time: 3 to 4 seconds
- 200W RF power rating
- Use more antenna types, and tune a much wider bandwidth than with typical built-in transceiver tuners and many manual tuners.
- Handles up to a 10:1 VSWR on HF and 3:1 on 6 meters

- Matches 50Ω unbalanced output from your transceiver to 6 to 800Ω unbalanced, and long wires or balanced line from 24 to 3200Ω.
- One input, two outputs – coax and stand offs for wire or ladder line, push button selectable
- Built-in precision Digital Meter simultaneously shows Peak or Average RF Power, VSWR, and all tuner functions.
- Audio responses for SWR for the visually impaired!
- All metal case, 7-1/2" h x 11" w x 2.5" d, 5.5 lbs
- Operation requires 12 VDC @ 1 amp.

\$399.99

KENT Paddles by ALPHA DELTA



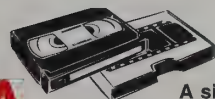
- Delicate, smooth feel due to sealed ball bearings instead of simple spring-loaded pivots • Free movement, minimum friction side play
- Precise gap alignments with instrument knurled heads on fine pitched screws and locking nuts.
- Rugged components made from machined, polished solid brass contained within a permanent brass housing.
- Silver contacts • Non-slip feet • Weighted for stability • Paddle models use heavy steel bases
- Designed and produced by R.A. Kent Engineers, England • Imported, fully assembled and tested by Alpha Delta.

Model SK-1 Straight Morse Key (top) **\$129.99**

Model SP-1 Single Paddle Morse Key (bottom/left) .. **\$139.99**

Model TP-1 Twin Paddle Morse Key (bottom/right).... **\$149.99**

ALPHA DELTA



Basic Technology for the Amateur Radio Enthusiast

A simple, straight forward Video and Book program that takes you on a journey, explaining the wonderment of the amateur radio hobby.

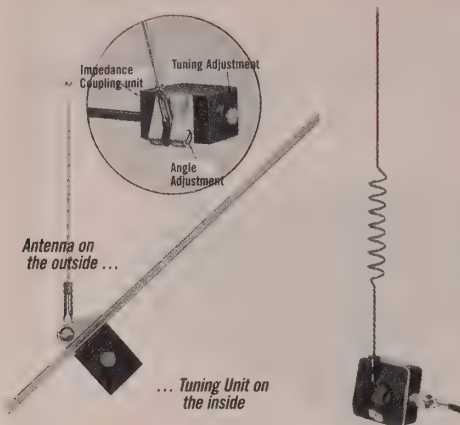
The 24-minute video illustrates radio fundamentals, and explains everyday electronic terms you'll hear relating to the hobby. You will even go with a miniature "tour guide" on a walk through a receiver printed circuit board. The guide will show you how amplification, power supplies, radio frequency and audio amplifiers and other parts of a radio work, and an explanation of what "semiconductors" are all about. Neither the video nor the book get into math or formulas – it's been kept simple.

The book is designed for the non-technical person interested in joining the hobby or the amateur operator who would like to know more about "what's behind the dials" and explains the fascination of the hobby in detail.

ALP BASIC TECH... \$39.99



ANTENNA SPECIALISTS



"ON-GLASS"™ MOBILE ANTENNAS

No holes to cut! The small tuning unit attaches to glass inside the vehicle and couples capacitively through the glass to the radiating element mounted on the outside. Installs with easily-removable adhesive. Includes adhesive, 15' coaxial cable with PL-259 connector • 100W • 144-174MHz (APR-151.3), 138-150MHz (AP-143) • 6MHz, tunable bandwidth • Less than 1.5:1 VSWR • 50Ω nominal impedance • Electrical 1/2-wave radiator • Shunt fed, DC ground coupling unit • 33" (APR-151.3) 23" (AP-143) stainless steel, black DURACOAT™ finish whip • 15' RG-58/U cable with PL-259

APR-151.3 (left) 2m, on-glass, 33" high... **\$69.99**

AP-143 (right) 2m cell "look-alike," 23" ... **\$69.99**

PREMIER communications



RD-78 RD-8 RD-98 RD-9 AL-800

HANDHELD ANTENNAS

RD-2 Short Duck Antenna (not pictured) Perfect fit for the new micro-sized handhelds such as the VX-1R, VX-5R, IC-Q7A, etc. Only 2" tall, but gives big performance. Operates on both 2M and 440MHz and also works great for out of band scanning. BNC connector **\$14.99**

RD-2SMA Same as RD-2, SMA connector **\$15.99**

RD-78 Extended Duck Antenna 15" tall, provides an improvement over stock, steel, spring-type antennas. Hit local repeaters solidly, access distant machines, talk extended simplex. Has 2.5dBi gain on VHF, 3.2dBi on UHF. Also includes 800/900MHz receive capability. Flexible, but doesn't droop. Gold-plated BNC connector **\$19.99**

RD-8 Duck Antenna 6.5" tall and very flexible. Improves your signal over any manufacturer's stock duck. The perfect companion to any 2M/440MHz handheld, including those with 800/900MHz receive. Gold-plated BNC connector..... **\$14.99**

RD-98 Thin Whip Antenna A 2M/440MHz HT antenna that is 17" long with a diameter of only 1/16th of an inch. Made of extremely strong and very flexible material – ties in a knot without damage! BNC connector..... **\$24.99**

RD-98SMA Same as RD-98, SMA conn... **\$27.99**

RD-9 Flexible Duck Antenna An extremely flexible 7" tall rubber duck that will improve handheld performance on both 2M and 440MHz, while providing 800/900MHz receive capability. Connector is protected by a moisture shield and is molded to sit firmly on the connector, preventing excessive wear and tear. BNC connector..... **\$18.99**

RD-9SMA Same as RD-9, SMA conn **\$20.99**

AL-800 Telescoping Antenna Useful whenever you need extra performance for satellite work, or when on the fringes of a repeater. Telescopes to 34" or collapses to 10". Has 3.2dBi gain on VHF, 5.5dBi on UHF. For convenience and/or shorter range operation, the telescoping section unscrews and may be replaced with the included 9" rat tail. Gold-plated BNC connector **\$29.99**

Used & Demo

Equipment lists

Updated regularly on the web.
Check them out and order **On-line**

Maldol

A Tradition of Consistent Quality

HAND CRAFTED ANTENNAS

From Professional Engineers

MK-30H Motorized Mount

The ultimate in convenience.

12VDC Heavy Duty Motor with Remote Switch
Attaches easily to trunk lids or the rear door of Vans/SUVs. 360° adjustable. Slip-clutch protects the motor gears from stripping. Max Antenna Height: 62 inches. Max Antenna Weight: 16oz. Accepts standard SO-239 cable assembly (FVS-50) for mounting PL-259 type antennas. (NMO antennas require SO-239 cable assembly and Comet AD-25M adapter)



PRM-T Heavy Duty Lip Mount

Attaches to a trunk or rear door of Vans/SUVs. Holds antennas up to 85 inches securely. Completely adjustable, rubber gasket protects vehicle paint.

FVS-50 Deluxe Coax Cable Assembly

Attach the FVS-50 to the PRM-T heavy duty adjustable mobile mount. 16 feet 9 inches total length with 18 inches of RG-188 type coax for easy entry into the vehicle without causing wind noise, water leaks or coax damage. PL-259 barrel is detachable for easy installation, weather cap included.

NEW FOR THE YAESU FT-817!

Complete Telescoping HF Antenna w/BNC Conns & Removable Whip

AH-28 (10 meter) **AH-14** (20 meter)

Length: 48 inches Max Pwr: 10W

Optional loading coils and whip.

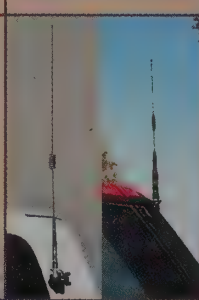
AH-C7 (40 meter) **AH-C14** (20 meter)

AH-C21 (15 meter) **AH-C28** (10 meter)

AH-R Optional stainless steel telescoping whip



MOBILE ANTENNAS



EX-104B/EX-104BNMO

2M/70cm Dualband Antenna

Gain: 0/2.15dBi Length: 15 inches
Max Power: 50W Conn: PL-259 or NMO

EX-107RB/EX-107RBNMO

2M/70cm Dualband Antenna

Gain: 2.6/4.9dBi Length: 29 inches
Max Power: 80W Conn: PL-259 or NMO
Ground Independent

SHG-140B/SHG-140BNMO

2M Mobile Antenna

Gain: 4.1dBi Center Loaded 5/8 wave
Length: 56 inches Max Power: 200W
Conn: PL-259 or NMO
Ground Independent

SHG-1500B/SHG-1500BNMO

2M/70cm Mobile Antenna

Gain: 4.5/7.5dBi Length: 59 inches
Max Power: 200W Conn: PL-259 or NMO
Ground Independent



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Fax: (714) 630-7024 • www.cometantenna.com



NCG/COMET's Mono, Dual, and Tri-Band Antennas for Base Station and Repeater use.

Featuring the COMET Exclusive SLC System:

- Linear Coil for Maximum Gain
- Soldered Element Joints
- ABS Radome Joints: Weather Proof/Invisible to RF for the Finest Radiation Pattern

GP-15 • Tri-band 52/146/446MHz Base Repeater Antenna
Gain & Wave: 52MHz 3.0dBi 5/8 wave • 146MHz 6.2dBi 5/8 wave x 2 • 446MHz 8.6dBi 5/8 wave x 4 • Max Pwr: 150W • Length: 7'11" • Weight: 3lbs. 1oz. • Conn: Gold-plated SO-239
• 2MHz band-width after tuning (6M) • Construction: Single-piece fiberglass

CX-333 • Tri-band 146/220/446MHz Base Repeater Antenna
Gain & Wave: 146MHz 6.5dBi 5/8 wave x 2 • 220MHz 7.8dBi 5/8 wave x 3
• 446MHz 9.0dBi 5/8 wave x 5 • Max Pwr: 120W • Length: 10'2" • Weight: 3lbs. 1oz.
• Conn: Gold-plated SO-239 • Construction: Fiberglass, 2 Sections

GP-3 • Dual-band 146/446MHz Base Repeater Antenna
Gain & Wave: 146MHz 4.5dBi 6/8 wave • 446MHz 7.2dBi 5/8 wave x 3 • Max Pwr: 200W • Length: 5'11" • Weight: 2lbs. 9ozs. • Conn: Gold-plated SO-239 • Construction: Single-piece fiberglass

GP-6 • Dual-band 146/446MHz Base Repeater Antenna
Gain & Wave: 146MHz 6.5dBi 5/8 wave x 2 • 446MHz 9.0dBi 5/8 wave x 5 • Max Pwr: 200W • Length: 10'2" • Weight: 3lbs. 8ozs. • Conn: Gold-plated SO-239 • Construction: Fiberglass, 2 Sections

GP-9/GP-9N • Dual-band 146/446MHz Base Repeater Antenna • BEST SELLER!
Gain & Wave: 146MHz 8.5dBi 5/8 wave x 3 • 446MHz 11.9dBi 5/8 wave x 8 • Max Pwr: 200W • Length: 17'8" • Weight: 5lbs. 11ozs. • Conn: GP-9 Gold-plated SO-239 • GP-9N Gold-plated N-type female • Construction: Fiberglass, 3 Sections



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COMET™ & Maldol

specialists in "No Holes Mobile Mounts!"



COMET RS-730 Heavy-duty, 4 adjustment planes, up to 70" antenna.



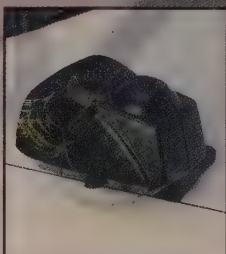
COMET RS-720/RS-720NMO Med-duty, 3 adjustment planes, up to 60" antenna. NMO mount version.



COMET RS-520 Light-duty, 3 adjustment planes, up to 45" antenna.



Maldol PRM-T Heavy-duty, 3 adjustment planes, up to 80" antenna.



Maldol MK-30H 12VDC motorized mount. Mounts to vertical or horizontal door lip. Up to 70"/19 oz. antenna.



Maldol EM-B80 Light-duty, 2 adjustment planes, up to 40" antenna.



Mount: CP5M Antenna: C757

NEW

COMET NEW CP-5M Universal lip mount. 4 adjustment planes, 4 set screws, holds up to 70" antenna. Use on trunk lids, van doors, truck doors, hoods, etc. Fits over virtually any lip 1/4" thick or less. 16'9" of deluxe cable included, 18" mini RG-188A/U style coax for easy entry thru the weather seal. Gold-plated SO-239/PL-259 connectors.

When opened, the antenna does not hit the vehicle, as shown in the photo at the bottom right.

When mounting to a van door, SUV, truck door, etc., use the CP-5M or build your own mounting system with the brackets and cable assemblies shown above. There are several mount sizes, coax diameters and coax lengths from which to choose.



COMET CQ-5M Low-profile, "quick-disconnect" trunk lip mount. For quick storage, or theft prevention, the antenna and connector are disengaged from the mount base with the release of a lever. Offset washers provide up to 17 deg vertical antenna adjustment. Includes 16'9" of deluxe cable, 18" of mini RG-188A/U style coax for easy entry thru the weather seal. Gold-plated SO-239/PL-259 conns.



COMET GR-5M Low-profile, stainless steel trunk lip mount. Offset washers provide for up to 17 deg vertical adjustment of antenna. 16'9" of deluxe cable included, 18" mini RG-188A/U style coax for easy entry thru the weather seal. Gold-plated SO-239/PL-259 connectors.



COMET 3D5M/3D4M Standard low loss cable assembly. Gold plated SO-239/PL-259 connectors. 17' length/13.5' length.



COMET CK-3M5/CK-3M Deluxe cable assembly 17' length including 17" of RG-188A/U for easy entry from a lip mount without causing water leak, wind noise or coax damage. CK-3M 9'9" total length.

Mount: CP5M Antenna: MSG-1000C



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COMET HT-224 • Tri-band 2M/220/440MHz HT Antenna
Gain: 1.3/1.4/1.8dBi • Length: 11.5" • Conn: Male SMA

Maldol MH-610 • Tri-band 2M/220/440MHz HT Antenna Super-flex whip
Gain: 0/1.8/3.2dBi • Length: 14" • Conn: Male SMA

Maldol MH-510 • Tri-band 52/146/446MHz HT Antenna w/SMA Conn
Gain: 0/0/3.2dBi • Length: 20.75" • Conn: Male SMA • Max Pwr: 10W

Maldol MH-209SMA • Dual-band 146/446MHz HT Antenna w/SMA Conn
Gain & Wave: 0 1/4 wave • Length: 3" Flexible rubber • Conn: Male SMA • Max Pwr: 5W

Go Mobile!

get there with

COMET & Maldol Antennas

NEW Challenger Series

COMET'S Newest Mobiles!
Sleek, Super-Flexible,
Dark Chrome Finish

Gain & Wave: 52MHz 0 gain 1/4 wave • 146MHz 3.5 dBi 1/2 wave center load • 446MHz 6dBi 5/8 wave center load • VSWR: 1.5:1 or less • Length: 43" • Conn: PL-259 • Max Pwr: 120W (FM)

Gain & Wave: 146MHz 4.5dBi 6/8 wave • 446MHz 7.2dBi 5/8 wave x 3 • Length: 58" • Conn: SBB-7 PL-259/SBB-7NMO NMO • Max Pwr: 70W

Gain & Wave: 146MHz 2.5dBi 1/2 wave • 446MHz 5.5dBi 5/8 wave x 2 • Length: 39" • Conn: SBB-5 PL-259/SBB-5NMO NMO • Max Pwr: 120W

Gain & Wave: 146MHz 2.15dBi 1/4 wave, 446MHz 3.8dBi 5/8 wave center load • VSWR: 1.5:1 or less • Length: 18" • Conn: PL-259 or NMO Style • Max Pwr: 60W

Gain & Wave: 146MHz 2.15dBi 1/2 wave, 446MHz 2.15dBi 1/2 wave • Length: 12" • Conn: B-10 PL-259/B-10NMO NMO • Max Pwr: 50W

NEW Challenger Series • Dual-band 146/446MHz w/fold-over
Gain & Wave: 146MHz 2.15dBi 1/2 wave, 446MHz 5.5dBi 5/8 wave x 2 • VSWR: 1.5:1 or less • Length: 38" • Conn: PL-259 or NMO Style • Max Pwr: 80W

NEW Challenger Series • Dual-band 146/446MHz w/fold-over
Gain & Wave: 146MHz 3.8dBi 1/2 wave center load, 446MHz 6.0dBi 5/8 wave x 2 center load • VSWR: 1.5:1 or less • Length: 40" • Conn: PL-259 or NMO Style • Max Pwr: 80W

40M Thru 70cm!

COMET NEW UVH-6 • HF/6M/2M/70cm Mobile Antenna 40"/20"/17"/15"/10"/6"/2M/70cm
Gain & Wave: 2M 2.15dBi 1/2 wave • 70cm 5.5dBi 5/8 wave x 2 • VSWR: HF 1.6:1 or less, 6M-70cm 1.5:1 or less • Length: 44" (min), 78" (max) • Max Pwr: HF 120W SSB, 6M 200W SSB/100W FM, 2M/70cm 100W FM • *L-14 optional 20M coil • *L-18 optional 17M coil • L-3.5 optional 70-80M coil • Features: • 6M/2M/70cm operation is constant. You choose the HF coils you want to add, up to four stock or optional. One vertical, the rest horizontal. • Easily mounts to standard trunk/door mount in minutes • Economical • Fold-over hinge built in • Select the duplexer or triplexer for your specific radio(s). CF-706A, CF-530, CFX-514N.

COMET UVH-6
Fold-Over Position

Maldol NEW EX-107B/EX-107BNMO • Dual-band 146/446MHz
Gain & Wave: 146MHz 2.6dBi 1/2 wave, 446MHz 4.9dBi 5/8 wave x 2 • VSWR: 1.5:1 or less • Length: 29" • Conn: PL-259 or NMO Style • Max Pwr: 100W



COMET NEW CP-5M
Universal mount and coax cable combo.
Heavy-duty, adjustable RS-730 trunk/van/SUV/truck door mount and deluxe cable assembly. 16' 6" length w/18" mini RG-188A/U type coax, gold-plated conns. Max antenna - 70".

Maldol MSG-1100C
Spring absorbs vibration and impact

Gain & Wave: 146MHz 3.5dBi 1/2 wave, 446MHz 6.0dBi 5/8 wave x 2 • Length: 43" • Conn: PL-259 • Max Pwr: 150W



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R6000 MULTIBAND VERTICAL

6 - 20 Meters

The Shape of Things to Come

The R6000 is a 6 through 20 meter, no ground radial antenna. It includes many of the features of the R8, R7 and R5 antennas. R6000 means excellent performance, easy installation and use, slim silhouette and high reliability. There are no traps used on 6, 10 and 15 meters for maximum efficiency and power handling.

► EASY INSTALLATION

For typical use, tuning is not required

► AUTOMATIC BAND CHANGING

To any band 6 through 20 meters

► SLIM SILHOUETTE

Gain favor of family and neighbors with the slim, low profile of the R6000

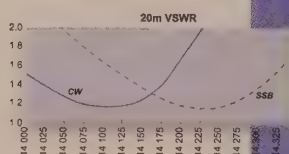
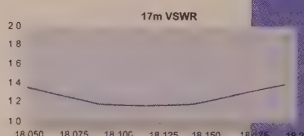
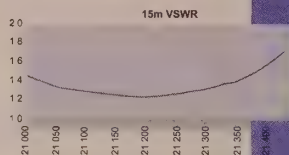
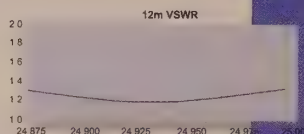
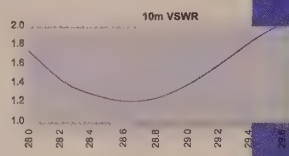
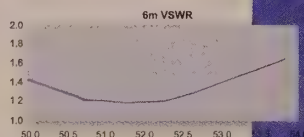
► 6 METER OPERATION

Join the fun of the "Magic Band" and take advantage of the new HF/50MHz transceivers

► AFFORDABLE PRICE

Cushcraft delivers the best quality and performance at a price no one else can match.

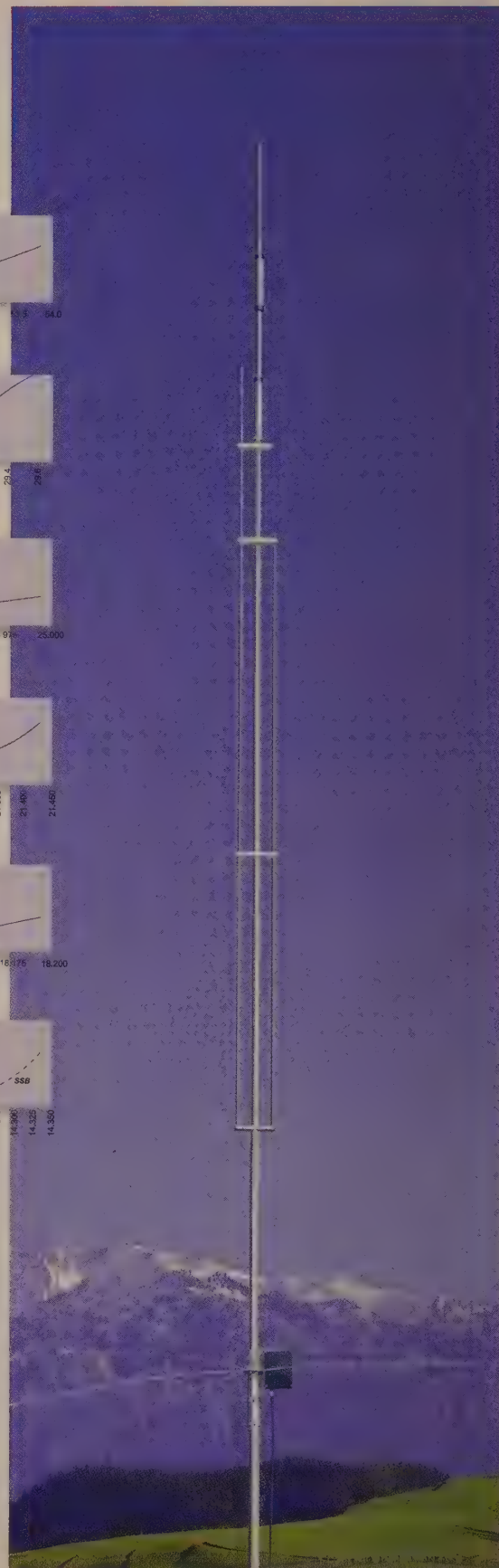
SPECIFICATIONS	R6000
Frequency, meters	6, 10, 12, 15, 17, 20
Gain, dBi	3
VSWR minimum	1.2:1 typical
2:1 bandwidth, KHz	6m >1300 10m >1700 12m >100 15m >450 17m >100 20m 300
Power, Watts output	1500
Radiation angle, deg.	16
Horizontal rad, deg	360
Height, ft (m)	19 (5.8)
Mast size range, in (cm)	1.5 -1.75 (3.8-4.4)
Wind load, ft ² (m ²)	1.5 (.14)
Weight, lb (kg)	12.5 (5.6)



The R6000 employs quarter wavelength stubs on 10 and 15 meters to replace standard trap coils. The result is lower loss and wider bandwidth. The R6000 covers all bands 6 through 15 meters at a VSWR under 2:1. On 20 meters you can select the top 300 KHz or bottom 300 KHz of the band.

The R6000 weighs only 12-1/2 pounds (5.6 kg). It is lightweight and easy to mount for portable or permanent installations. Machined aluminum clamps and UV stable insulators guarantee years of reliable service. The R6000 comes with the standard Cushcraft warranty of one year from purchase - plus the industry's leading technical support team stands behind each Cushcraft antenna.

The R6000 makes an excellent diversity antenna to complement even the most complete stations, or pack up the R6000 for a trip to the DX location of your dreams.



R8 MULTIBAND VERTICAL

HF Multiband Vertical Antenna 6, 10, 12, 15, 17, 20, 30, 40 Meter

Cushcraft is pleased to announce the introduction of the R8, it's newest multiband HF vertical antenna. This most contemporary of multiband vertical designs provides 8 band coverage encompassing the 6, 10, 12, 15, 17, 20, 30 and 40 meter bands.

Cushcraft has achieved a major breakthrough in the development of an HF multiband vertical antenna that has been specifically designed for use with a tuner and amplifier. As a result, the antenna more accurately addresses the needs of the contemporary ham shack.

Multiband vertical antennas have always been complicated designs with components as likely to be damaged by high levels of mismatched transmit power as the rigs they are attached to. Before the use of tuners became widespread, the antenna was protected by the same safety mechanisms that protected the rig. Now, the automatic power reduction circuits of the past have actually become a second layer of protective circuitry. Although the auto-tuner provides the ham with a more versatile device as well as protecting the rig's components, the antenna is more vulnerable than ever. With the press of a button, unmanageably high loads can be transmitted up to the antenna. The result to the antenna can be catastrophic failure in some instances.

The R8 is the first multiband vertical designed for the rigors of contemporary operating conditions. Although the antenna is best operated within it's 2.0:1 VSWR bandwidth, it can sustain a 3.0:1 VSWR mismatch at full power for typical operating intervals. Now the ham can take full advantage of the versatility that a tuner used in conjunction with a multiband HF vertical antenna can give him.

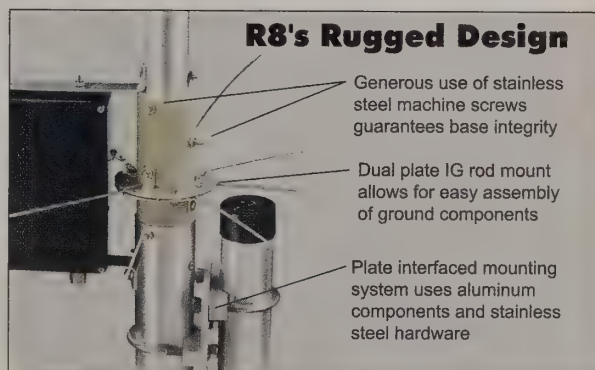
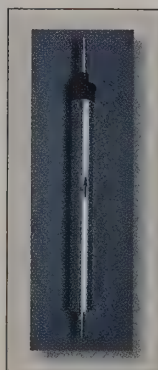
- ▶ **RUGGED CONSTRUCTION**
- ▶ **AUTOMATIC BAND CHANGING**
- ▶ **SLIM, LOW PROFILE SILHOUETTE**



SPECIFICATIONS

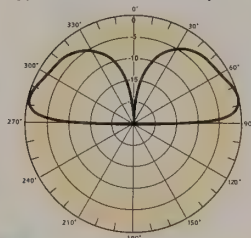
R8

Frequency, meters	6,10,12,15,17,20,30,40
Gain, dBi	3
VSWR 2:1 bandwidth, KHz	40m (150)
	30m (>50)
	20m (>350)
	17m (>100)
	15m (>450)
	12m (>100)
	10m (>1500)
	6m (>1500)
VSWR at resonance (typical)	1.3:1
Power Rating, Watts CW	1500
Vertical Radiation angle, deg.	16
Horizontal rad, deg.	360
Height, ft(m)	28.5 max. (8.7)
Wind survival	80 mph
Weight, lb. (kg)	23 (10.5)

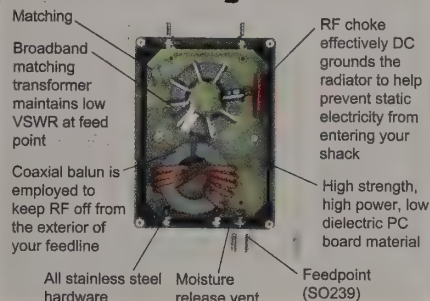


Even if you aren't using a tuner and amplifier, you will appreciate this antenna's rugged, heavy duty components. The R8 is easy to assemble and is built to provide years of trouble free service and satisfaction.

Typical elevation radiation pattern



R8 Matching Network



INTRODUCING, MA5V VERTICAL

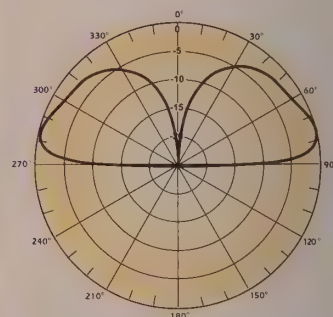
 **10 - 20 Meters**

MA5V, High Performance Multiband Vertical Antenna

The latest addition to Cushcraft's line of high performance, HF multiband verticals allows the occasional user to become the neighborhood BIG GUN. Cushcraft's MA5V is ideal for temporary or portable 5 band operation. The antenna offers 5 band coverage from 10 through 20 meters and is ruggedly constructed, easy to install and just about disappears against the horizon. The antenna does not require radials and can be dismantled in a flash, making it the perfect choice for patios, small backyards, condominium and townhouse balconies or any other environments where permanent antenna use is restricted by covenant or rule. The MA5V will handle all the power you will ever need to work the world from the comfort of your own communications center. And when you're done, just store it away for next time or keep it installed if you wish.

The MA5V from Cushcraft...
Ham radio, "just for the fun of it".

- ▶ **5 band coverage**
- ▶ **Lightweight**
- ▶ **Perfect for temporary or permanent mounting**
- ▶ **Work from condos', apartments, motor homes**



Typical elevation radiation pattern

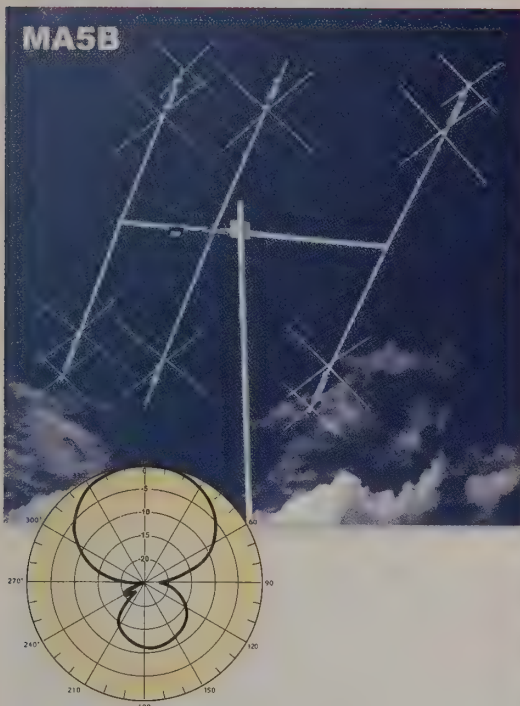
SPECIFICATIONS	MA5V
Frequency, meters:	20, 17, 15, 12, 10,
Gain, dBi:	1-2
VSWR minimum:	1.2:1 All bands
Maximum Wind Surface:	.82 ft ² (.076 m ²)
Wind Survival, mph:	>80
Maximum Power Handling:	250 SSB
Height, ft (m):	14.7 (4.48)
Mast size, in (cm):	1.25 -2.0" (3.18-5.1)
Weight, lb (kg):	6.5 (2.95)

HF MULTIBAND BEAM



10-20 Meters

MA5B



High Front To Back Ratio
On 10/15/20m

The Director, Small Footprint-Big Signal

MA5B. Cushcraft's newest multiband HF antenna provides 5 band directivity in a package small enough to mount to a tripod. The MA5B is a design that does not sacrifice ruggedness, performance and power handling for size and ease of installation.

- I am delighted with the performance compared with other HF antennas I have been using!

Bob Swannell, MOBYA

- Thank you for making a fine quality, powerful mini beam that can fit anyone's budget.

Phil West, KF2WL

SPECIFICATIONS	MA5B				
Frequency, MHz	10	12	15	17	20 Meters
Elements	2	1	2	1	2 per band
Gain	5.3	1.0	4.8	1.0	3.6 dBi
Front to Back Ratio	10	0	12	0	22 dB
Sidelobe Attenuation	25	25	25	25	25 dB
VSWR 2:1 Bandwidth	665	>110	255	>100	90 kHz
Longest Element	17.1ft (5.2m)				
Turning Radius	88ft (27m)				
Boom Length	7.3ft (2.2m)				
Boom Diameter	1.5in (3.8cm)				
Max. Wind Surface Area	3.22 ft ² (3m ²)				
Max. Power Handling	1.2 kw				
Weight	26.5 lbs. (12kg)				

• **Easy To Tune**
No complicated gamma matches to adjust.

• **Low VSWR**
Flat response across all 5 bands. VSWR minimum 1.2:1.

• **Single Feed Point**
Only one coaxial feed line is necessary for all 5 bands.

• **Rugged Construction**
Cushcraft's tried and true stainless steel mounting hardware and heavy wall aluminum tubing make for a rugged, long lasting antenna.

• **Easy To Turn**
With a boom length of 7 feet and a longest element length of 17 feet, a lightweight TV rotor will do the trick.

BIG THUNDER TRIBANDER



- ▶ New High Efficiency Computer Optimized Design for Maximum Gain and Ultra Clean Radiating Pattern
- ▶ 100+ MPH Construction for Best Reliability and Long Life
- ▶ NEW 4L Log Cell Driven Elements for better VSWR Bandwidth
- ▶ Trapless Driven Elements and Reflectors for Reliable Power Handling
- ▶ Interleaved Element Design for Mono-Band Performance
- ▶ Add-on kits available for 40 Meters

40 Meter Add On Kits

MODEL	X740
Band	7 MHz
Element Length ft. (m)	41 (12.5)
Power (W)	2KW
Weight	20lbs. (9.1 kg)



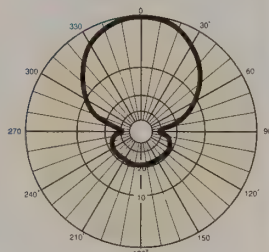
Element Hardware Boom-to-Mast

X7

The X7 Triband Yagi is geared to set new standards in both radiating performance and mechanical reliability. Cushcraft's product development team has employed the latest computer modeling technology to achieve a superior electrical design as well as elegant new mechanical hardware and assembly techniques.

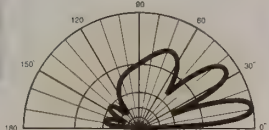
Each mechanical component was designed to 100+ MPH wind survival with a 1.25 safety factor. Traps were eliminated from the high current driven elements and reflectors using the new 4L Log Cell design, which yields virtual monoband performance and maximum power handling capability. Traps are employed only in the lower current directors for increased gain and sharper pattern. The result is a truly high performance antenna which will easily handle the legal limit.

X7



Azimuth

Typical radiation patterns.
Height: One wavelength.
Frequency: 20 M



Elevation

SPECIFICATIONS	X7
Frequency Coverage (Meters)	10, 15, 20
Total number of Elements	7
Maximum Gain (dBi)	20M 12.5 @ 14 deg
@ One Wavelength	15M 13.0 @ 12 deg
	10M 12.9 @ 14 deg
Maximum Front to Back Ratio (dB)	30
Number of Elements per Band	3
VSWR Minimum	1.1:1
VSWR 1.5:1 Bandwidth (KHz)	20M 600
	15M 750
	10M 1700
Longest Element, ft (m)	37.2 (11.33)
Turning Radius, ft (m)	20.0 (6.09)
Boom Length, ft (m)	18 (5.49)
Boom Diameter, in (cm)	2-1/2 (6.35)
Maximum Mast Diameter OD, in (cm)	2-1/2 (6.35)
Maximum Wind Survival, mph (kph)	>100 (>161)
Maximum Wind Surface Area, ft ² (m ²)	7.9 (.73)
Windload @ 80 mph, lb (kg)	202 (92)
Maximum Power Handling (KW)	2
Weight, lb. (kg)	60 (27.2)

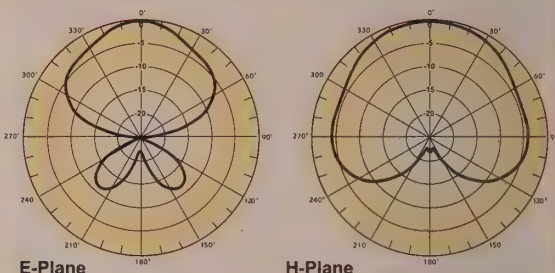
ASL670 LOG PERIODIC ANTENNA

6 Meter - 70 CM



The antenna exhibits excellent gain and f/b with good VSWR bandwidth to boot. Get one today and enjoy the fun of high performance operation and multi-frequency listening all in one compact antenna.

- ▶ **Rugged construction**
- ▶ **Wide band Log Periodic**
- ▶ **Easy to install**
- ▶ **Easy to turn**



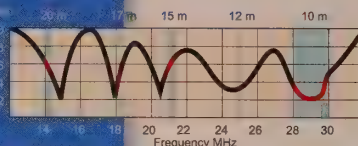
ASL670 Log Periodic

Cushcraft's new ASL670 is the ultimate multi-use antenna. Since the antenna is a log periodic, it offers continuous coverage through the 2 and 6 meter bands as well as 220 and 440 MHz. So, while being a terrific antenna for operating on those bands, it is also a great aviation and public safety band monitoring antenna. Use the antenna for contesting and mountain topping if you like. The antenna is compact and easy to assemble and disassemble with no tuning required. Yet it is rugged enough for permanent installation. The ASL670 really shines in its performance specs.

MODEL	ASL670
Frequency, MHz:	50 - 450, Continuous
No. Elements:	14
Forward Gain, dBi, dBd:	6.5, 4.5
Front to Back Ratio, dB:	20
SWR:	1.5:1 Average
Power Rating, Watts PEP:	300
3dB Beamwidth, Degrees, H-Plane:	110
E Plane:	80
Boom Length, ft (m):	6'-8" (1.9)
Boom Size, in (cm):	1.0 x 2.75 (2.54 x 7)
Longest Element, ft (m):	126.6" (3.22)
Turning Radius, Horizontal Mtg. ft (m):	6'-3" (1.9)
Turning Radius, Vertical Mtg. ft (m):	3'-9" (1.15)
Mast Size Range, in (cm):	1.5"-2.5" (3.8-6.4)
Wind Load, ft ² (m ²):	3.0 (.28)
Weight, lb (kg):	11-1/4 (5.15)



- ▶ **Continuous five band coverage from 13.5 to 32 MHz**
- ▶ **Constant over entire frequency range**
- ▶ **6.4 dBi gain, 65 degree beamwidth**
- ▶ **High efficiency design, antenna stays cool and VSWR steady**
- ▶ **18 foot boom and 19.5 foot turning radius**



Skylog

The ASL2010 log periodic antenna is the most cost effective, high gain, five band antenna solution on the market today. Skylog offers continuous operation from 13.5 to 32 MHz. Antenna gain and beamwidth are constant for uniform coverage from 10 through 20 meters. The ASL2010 is rated for continuous duty at full legal power. Skylog is designed for maximum gain on a manageable 18 foot boom with only 10.1 square feet of wind surface area. All stainless steel hardware and rugged element design are only some of the many features that provide years of superior antenna performance. Skylog ASL2010 is the smart choice for multiband HF operation.

MODEL	ASL2010
Frequency, MHz	13.5-32
No. Elements	8
Forward Gain, dBi	6.4
Front to Back Ratio, dB	15-20
SWR 1.2:1 Typical	
2:1 Bandwidth	18.5 MHz
Power Rating, Watts PEP	2000
3dB Beamwidth, Degrees	
E Plane	65
Boom Length, ft (m)	18 (5.48)
Boom Diameter, in (cm)	2.0 (5.08)
Longest Element, ft (m)	38 (11.58)
Element Ctr Dia., in (cm)	1.25 (3.18)
Turning Radius, ft (m)	19.25 (5.86)
Mast Size Range, in (cm)	1.5-2 (3.8-5.1)
Wind Load, ft ² (m ²)	10.1 (.93)
Weight, lb (kg)	55 (25.5)



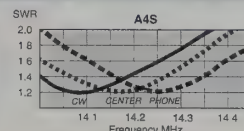
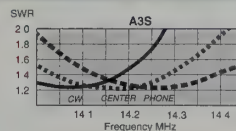
10-40 M

WORLD RANGER MULTIBAND HF YAGIS

A4S Four Element Beam - 10, 15 & 20 Meters

With stainless steel hardware.

The A4S is the true, high performance tribander. Precisely tuned high-power traps, carefully selected element lengths, and proper spacing combine to make the A4S the preferred antenna for your HF work! This is the premium antenna with all the features that you want. High gain, low SWR, and wide bandwidth keep the contacts coming in. All U-bolts, clamps and hardware are stainless steel. The A4S has pinned boom sections and formed aluminum brackets to keep elements straight under all conditions. Our solid construction keeps the A4S on the tower! Add 40 meters with A744 kit.



A3S Three Element Beam - 10, 15 & 20 Meters

With stainless steel hardware.

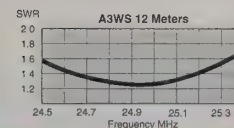
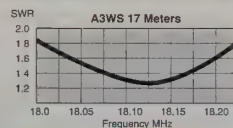
The A3 World Ranger, our top selling tribander, has become the A3S with all stainless steel hardware. It's a real power-house in a small space and lets you work the pile-ups with confidence. All you need is a lightweight tower and rotator to enjoy the benefits of the A3S. It's a proven performer in DX-peditions and contests and handles full power from your linear.

Construction features include pinned boom sections, heavy duty element clamps with backing plates plus all stainless steel hardware. When space is at a premium, but you want the benefits of a full-size tribander, the A3S is right for you! Add 40 meters with A743 kit.



A3WS WARC Bands 3 Element - 12 & 17 Meters

Enjoy the excitement of the WARC bands with this popular beam. The A3WS gives full performance on 12 and 17 meters. With the addition of our easy-to-use A103 add on kit, it will also cover 30 meters. A3WS needs only a lightweight tower and rotator or you can mount it above an existing tribander. Construction features include pinned boom sections, heavy duty element clamps with backing plates plus all stainless steel hardware.



MODEL	A4S	A3S	A3WS
Frequency, MHz	28, 21, 14	28, 21, 14	24, 18
No. Elements	4	3	3
Forward Gain, dBi	8.9	8.0	8.0
Front to Back Ratio, dB	25	25	25
SWR 1.2:1 Typical			
2:1 Bandwidth KHz	>500	>500	300
Power Rating, Watts PEP	2000	2000	2000
3 dB Beam Width, Deg. E Plane	58	60	60
Boom Length, ft (m)	18 (5.48)	14 (4.27)	14 (4.27)
Boom Diameter, in (cm)	2 (5.10)	1.5 (3.81)	1.5 (3.81)
Longest Element, ft (m)	32 (9.75)	27.75 (8.45)	25.1 (7.66)
Element Center Dia, in (cm)	1.25 (3.18)	1.25 (3.18)	1.25 (3.18)
Turning Radius, ft (m)	18.4 (5.49)	15.5 (4.72)	14.4 (4.4)
Mast Size Range, in (cm)	1.25-2.00 (3.18-5.08)	1.25-2 (3.18-5.08)	1.25-2 (3.18-5.08)
Wind Load, ft ² (m ²)	5.50 (0.51)	4.36 (0.47)	4.1 (0.38)
Weight, lb (kg)	37 (16.8)	27 (12.9)	22.5 (10.2)

30 & 40 Meter Add-On Kits - For A3S, A4S & A3WS

40 meters will come alive by adding one of these kits to the dipole of your A3S or A4S. The kits include high power traps with heavy wall fiberglass insulator and all hardware. A simple adjustment allows 30 meter operation. For our newest beam, the A3WS, we have a 30 meter add on kit the A103.

A743 7 MHz/10 MHz kit for A3S

A744 7 MHz/10 MHz kit for A4S

A103 10 MHz kit for A3WS

MODEL	A743/A744	A103
BAND	7 MHz (40 m) 10 MHz (30m)	10 MHz (30m)
Driven Element with Adapter kit, ft (m)	33.19 min. 35.33 max. (10.12-10.77)	27.12 min. 28.4 max. (8.27-8.66)
Windloading ft ² (m ²)	.58 (.05)	.27 (.03)
Bandwidth, KHz	125	150
Power Rating, Watts	2000 PEP	2000 PEP
Side Rejection, dB	20	20
Weight, lb (kg)	3.44 (1.56)	2.29 (1.04)

Rotatable Dipoles

Our World Ranger Dipoles give bi-directional patterns and rotatable convenience. You can mount them high and away from the trees for better performance than a wire dipole. These single and multi-band dipoles feature high-performance traps, heavy wall tubing, and rugged hardware for years of enjoyment.



MODEL	D40	D4	D5	D3W
Frequency, MHz	7	28,21,14,7	28,21,14	24,18,10
SWR 1.2:1 Typical				
2:1 Bandwidth, KHz	200	>350 40>125	>500	>200
Power Rating				
Watts PEP	2000	2000	2000	2000
Length ft	42.25	35.8	25.8	34.0
(m)	(12.88)	(10.92)	(7.86)	(10.37)
Mast Size, in (cm)	1.5-2 (3.8-5)	1.5-2 (3.8-5)	1.5-2 (3.8-5)	1.5-2 (3.8-5)
Wind Load, ft ² (m ²)	1.3 (.12)	1.3 (.12)	.9 (.08)	.9 (.08)
Weight, lb (kg)	12 (5)	13 (6)	9 (4)	11 (5)



CUSHCRAFT
CORPORATION

MULTIBAND DIRECTIONAL YAGI

6/2 Meter, 70 CM,



A627013S 6 Meter/2Meter/70 CM

Cushcraft's newest multiband directional yagi is designed to provide hobbyists who have limited tower or mast space with directional antenna performance on three of the most popular bands. The A627013S combines 6 meters, 2 meters and 70 centimeters on one boom. Since the three antennas were designed to share a common boom, the A627013S solves the often encountered problem of degraded antenna performance due to inadequate spacing when using separates.

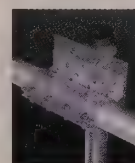
MODEL	A627013S		
Frequency, MHz	50-54	144-148	430-450
No. Elements	3	5	5
Forward Gain, dBi	8	10	10
Front to Back Ratio, dB	20	20	18
SWR 1.2:1 Typical			
2:1 Bandwidth, MHz	>1	>4	>10
Power Rating, Watts PEP	1000	350	350
3dB Beamwidth, Degrees			
E Plane		48.5	48.5
H Plane		60	60
Boom Length, ft (m)		8.66 (2.66)	
Longest Element, in (cm)		117 (300)	
Turning Radius, ft (m)		6.16 (1.87)	
Mast Size Range, in (cm)		1.25-2 (3.2-5.1)	
Wind Load, ft ² (m ²)		2.52 (0.23)	
Weight, lb (kg)		9.5 (4.3)	

- ▶ Outstanding performance thanks to Cushcraft's unmatched multiband design technology and experience.
- ▶ Rugged stainless steel mounting hardware is easy to install and maintain.



Big Thunder Monobander

Cushcraft's XM240 monobander utilizes rugged Big Thunder hardware that combined with high strength aluminum tubing affords the antenna outstanding wind survivability. Phillystran boom trusses are used in the XM240 design for extra boom stability. The feed system is a 50 ohm direct feed with dual driven elements. VSWR is flat across the band. A high power 1:1 balun is included. The XM240 is field-proven for reliability and performance. Excellent front to back ratio and gain makes the XM240 the right choice for DX and for stacking as well.



Boom-to-Mast

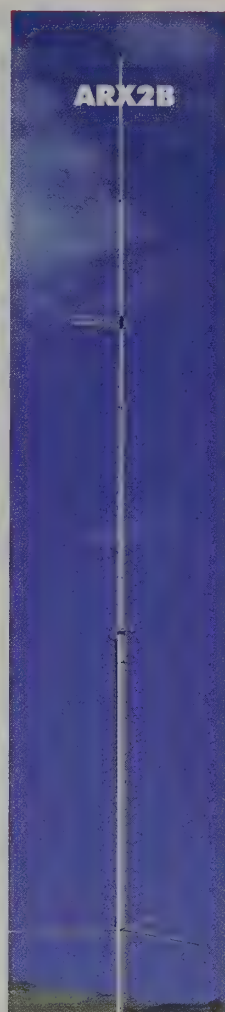


Element Hardware

MODEL	XM240
Frequency, MHz	7.0 - 7.3
Number Elements	2
Forward Gain Free Space, dBi	6.0
Fwd Gain @ 1 Wavelength Ht, dBi @ 14 deg	12.5
Front to Back Ratio, dB	20-25
VSWR Typical Minimum	1.1:1
VSWR 1.5:1 Bandwidth, KHz	150
Power Rating, Watts Output	1500
3dB Beamwidth, Degrees	70
Side Lobe Attenuation, dB	>35
Boom Length, feet (m)	22 (6.7)
Boom Diameter, inches (cm)	2.5 (6.3)
Longest Element, feet (m)	43 (13.1)
Turning Radius, feet (m)	24.3 (7.4)
Max Mast Size, inches (cm)	2.5 (6.35)
Wind Surface Area, sq ft (sq m)	5.5 (.51)
Wind Load @ 80 mph, lbs (kg)	142 (64.4)
Weight, lbs (kg)	55 (25)

RINGO RANGER II, RINGO RANGER, RINGO

70 CM, 1 1/4 M, 2 M



Some hams comment on the ARX2B:
"Since I put this antenna up I have received many compliments on the improvement of my signal." (N3LHP)

"The only antenna I ever installed that worked like it should the first time." (N7PGH)

"ARX2B is a good antenna for my use on 2 meters FM...Several on the air in my area." (N9OPL)

"ARX2B...the best antenna." (XE2CLB)

Our Ringos are Number One

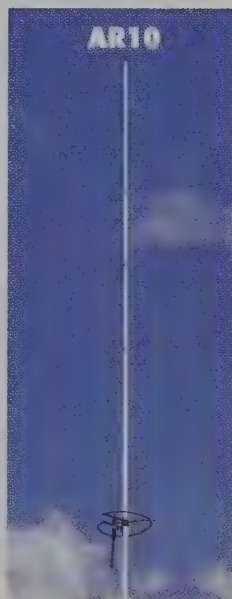
Tough performers at a good price! The Ringo family of dependable, cost-effective antennas has served more hams - from novice to veteran extra - than any other amateur antenna made. Simple, straightforward design, light weight and quick, easy installation make the durable Ringo family right for you. Ringo's top performance and low cost mean more dB per dollar - an equation anyone can appreciate.

Ringo Ranger II

Our Ringo Ranger II has more gain, less windload, and more mechanical integrity than other two meter antennas. You'll quickly appreciate the benefits of this amazing antenna! Based on the original W1BX Ringo, the Ringo Ranger II is the latest design featuring three 5/8 wave radiating elements and an adjustable 1/8 wave phasing stub. The result is a very low angle of radiation over your coverage area.

The Ringo Ranger II has built-in lightning protection, UV-stabilized insulators, heavy wall tubing, improved decoupling radials to eliminate feedline radiation, and all-weather performance.

MODEL	ARX2B	ARX220B	ARX450B
Frequency, MHz	135-160	222-225	435-450
SWR 1.2:1 Typical			
2:1 Bandwidth, MHz	>3	>5	>10
Gain, dBi	7.0	7.0	7.0
Power Rating, Watts FM	1000	500	500
Radiation Angle, Deg.	7	7	7
Horizontal Radiation			
Pattern, Degrees	360	360	360
Ring Diameter, in (cm)	5 (12.7)	5 (12.7)	3.5 (8.9)
Radiator Base Dia, in (cm)	.75 (1.9)	.75 (1.9)	.50 (1.2)
Height, ft, (m)	14 (4.3)	9.3 (2.8)	4.9 (1.5)
Mast Size Range, in (cm)	1.0-1.25 (2.54-3.1)	1.0-1.25 (2.54-3.1)	.75-.88 (1.9-2.22)
Radial Length, in (cm)	20.5 (52.1)	13.75 (33.7)	6.75 (17.1)
Wind Load, ft ² (m ²)	0.5 (0.05)	0.3 (0.03)	0.2 (0.02)
Weight, lb (kg)	6 (2.7)	5 (2.3)	1 (.45)



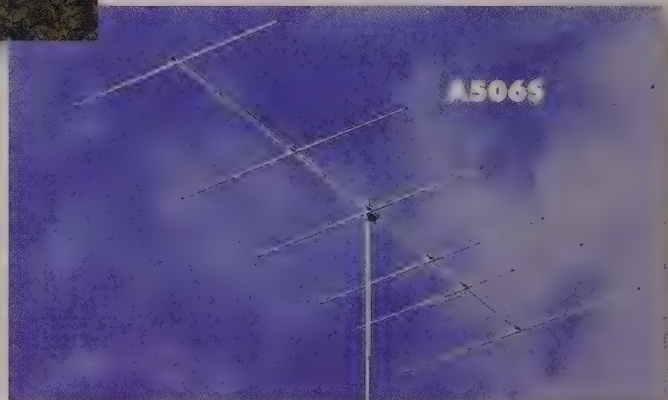
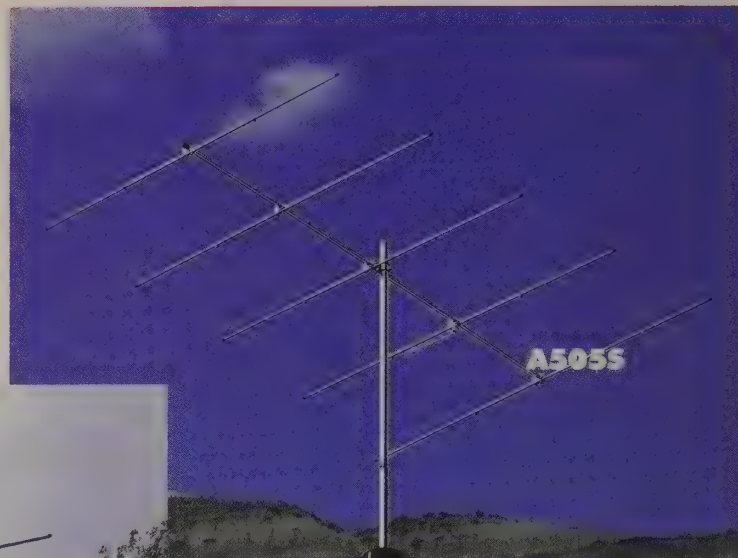
Ringo

These are the original W1BX FM Ringos. If you want a combination of compact size, wide bandwidth, a low radiation angle, these economical antennas are just for you. Since radials are not needed, you can even use our Ringos indoors. Our Ringos are 1/2 wave and include built-in lightning protection. Put up one of these easily installed antennas and start enjoying FM!

MODEL	AR2	AR6	AR10	AR450
Frequency, MHz	135-160	50-54	28-29.7	440-460
SWR 1.2:1 Typical				
2:1 Bandwidth, MHz	10	2	>1.5	20
Gain, dBi	3	3	3	3
Power Rating, Watts FM	1000	1000	1000	500
Radiation Angle, Deg.	16	16	16	16
Horizontal Radiation				
Pattern, Degrees	360	360	360	360
Ring Diameter, in (cm)	5 (12.7)	13 (33)	13 (33)	3.5 (8.9)
Radiator Base Dia, in (cm)	.75 (1.9)	1 (2.5)	1 (2.5)	.5 (1.3)
Height, ft, (m)	3.9 (1.2)	10.1 (3.1)	17.6 (5.36)	1.4 (.43)
Mast Size Range, in (cm)	1-1.25 (2.54-3.1)	1-1.25 (2.54-3.1)	1-1.25 (2.54-3.1)	.75-.88 (1.9-2.22)
Wind Load, ft ² (m ²)	.21 (.02)	.37 (.03)	1.68 (.16)	.1 (.01)
Weight, lb (kg)	1.5 (.68)	2.5 (1.1)	4 (1.8)	1 (.45)

6 Meter Yagis - SSB/CW/FM

Computer-aided modeling and test range techniques were used by Cushcraft engineers to further optimize the performance of our popular 6 meter Yagis. This process means more gain and cleaner patterns with excellent front-to-back ratios. S-models have very broad bandwidth so they will not detune in bad weather. They feature stainless steel hardware for long trouble-free life. Enjoy the new popularity and exciting contacts on the 6 meter band with one of the S-series Cushcraft Yagis. The A503S, A505S and A506S may be mounted vertically for FM use.



10 Meters

Looking for a lightweight, economical alternative to the 10 meter big boys? Choose the TEN3. Although it's popular with novices and technicians, this antenna is for any ham who wants more gain with a good front to back ratio on 10 meters. This antenna has an 8 foot boom (2.4m) making it easy to install on a very simple mount with only a light rotator. The matching system is our proven Reddi-Match for 50 Ohm no balun feed and SO-238 connector. Make more positive contacts with the TEN3.

MODEL	A503S	A505S	A506S	TEN3
Frequency, MHz	50-54	50-54	50-54	28-29.7
No. Elements	3	5	6	3
Forward Gain, dBi	8	10.5	11.6	8
Front to Back Ratio, dB	20	24	26	25
SWR 1.2:1 Typical				
2:1 Bandwidth, MHz	>1	>1	>1	>1.5
Power Rating, Watts PEP	1000	1000	1000	2000
3dB Beamwidth, Degrees				
E Plane	76	56	48	64
Boom Length, ft (m)	6 (1.8)	12 (3.7)	20 (6.1)	8 (2.44)
Longest Element, in (cm)	117 (300)	123 (312)	119 (302)	18 (5.49)
Turning Radius, ft (m)	6 (1.8)	7.8 (2.37)	11.5 (3.5)	9.8 (3.0)
Mast Size Range, in (cm)	1.5-2 (3.8-5.1)	1.5-2 (3.8-5.1)	1.5-2 (3.8-5.1)	1.5-2 (3.8-5.1)
Wind Load, ft2 (m2)	1.80 (0.17)	2.9 (0.273)	4.46 (.41)	2.0 (.20)
Weight, lb (kg)	7 (3.2)	11 (5.0)	18 (8.2)	9.9 (4.45)



BOOMER SIDEBAND/CW YAGIS



2 Meters

13B2



13B2 - 13 Element Wideband Boomer

The 13B2 is as versatile as the 17B2 is specialized. 13B2 will be your choice for high performance across the entire 2 meter band. New and experienced hams will enjoy 15.8 dBi gain on FM, packet, CW, or sideband across the 4 MHz operating range. The 13B2 is easily mounted vertically or horizontally for maximum performance on your favorite mode. Its optimum boom length makes it a popular antenna that fits just about anywhere. The new UltraMatch balanced feed on the 13B2 provides a 50 Ohm match via a standard SO-239 UHF female connector. Model **13B2N** has N connector.

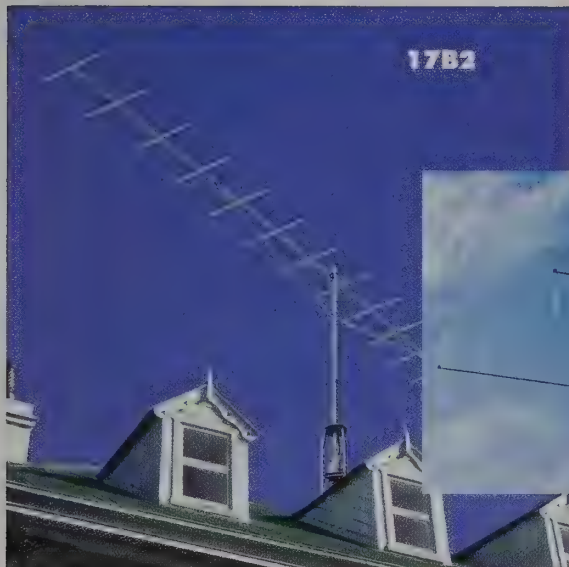
17B2 - 17 Element CW/SSB Boomer

The serious two meter operator who is interested in EME, aurora, scatter, SSB, CW, tropo etc, will choose the 17B2. It has 17 elements on a 4.5 wavelength boom. Our computer-aided design supported by precise test range data and the latest manufacturing technology gives you a cleaner pattern and 18 dBi gain in this long boom design. Significant enhancement is provided by the new UltraMatch balanced feed system with N-connector.

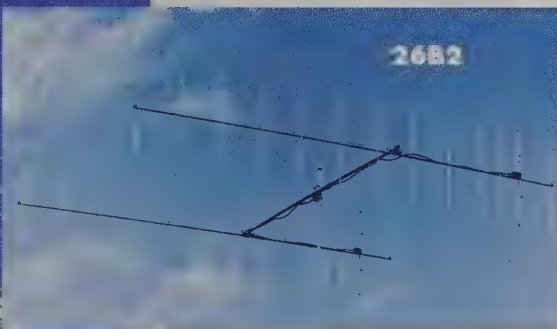


The new Cushcraft UltraMatch is a modified T-match system that provides a balanced current distribution on your Boomer. It uses UltraLink[®] teflon[®] dielectric cable allowing for low loss high power applications. UltraMatch is completely enclosed for weather proofing. UltraMatch features an N-connector on the 17B2 and UHF SO239 on the 13B2. When all weather performance is important, you will choose the new UltraMatched Boomers everytime.

17B2



26B2



26B2 - 26 Element Wideband Boomer

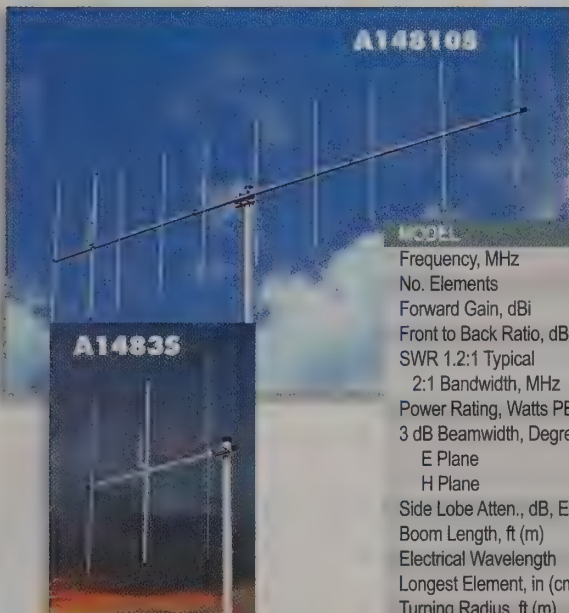
This antenna offers the highest gain of any 2 meter FM antenna in the world. The 26B2 includes two complete 13B2 antennas, stacking boom and phasing harnesses.

124WB - 4 Element Wideband Boomer

This is the right choice for packet systems and other applications requiring a dedicated directional antenna.



A14810S



A1483S

A14810S & A1483S 2M Yagis

These antennas are the newest computer optimized models of our 2 meter Yagis. We have improved both the pattern and gain to give you better FM coverage.

The A1483S is the low priced quality leader for Packet, FM or even portable use. It is easily rear mounted.

A14810S is one of our best value designs with excellent gain and front-to-back ratio. Use it for long range FM or full band 2 meter operation.

MODEL	13B2	17B2	124WB	26B2	A1483S	A14810S
Frequency, MHz	144-148	144-145	144-148	144-148	144-148	144-148
No. Elements	13	17	4	26	3	10
Forward Gain, dBi	15.8	18.0	10.2	18.8	7.8	13.2
Front to Back Ratio, dB	26	26	19	26		
SWR 1.2:1 Typical						
2:1 Bandwidth, MHz	>4	>2	4	>4	>5	≥4
Power Rating, Watts PEP	2000	2000	2000	2000	1000	1000
3 dB Beamwidth, Degrees						
E Plane	2 x 18	2 x 14.5	60	2x18	66	40
H Plane	2 x 19	2 x 15	88	2x9.5	108	46
Side Lobe Atten., dB, E Plane	>60	>60	40	>60		
Boom Length, ft (m)	15 (4.57)	31 (9.45)	4 (1.22)	15 (4.57)	2.8 (.85)	12 (3.6)
Electrical Wavelength	2.2	4.5	.5	2.2		
Longest Element, in (cm)	39.75 (101)	40.75 (103.5)	40.75 (104)	39.75 (101)	41 (104.1)	40.3 (102.4)
Turning Radius, ft (m)	8.9 (2.7)	17.25 (5.26)	4 (1.22)	10.4 (3.18)	2.8 (.8)	6 (1.8)
Mast Size Range, in (cm)	1.5-2	1.5-2	1.25-2	1.5-2	1.25-2	1.25-2
	(3.8-5.1)	(3.8-5.1)	(3.2-5.1)	(3.8-5.1)	(3.2-5.1)	(3.2-5.1)
Wind Load, ft ² (m ²)	1.8 (.17)	3.9 (.36)	.34 (.034)	4.84 (.45)	.27 (.02)	1.21 (.11)
Weight, lb (kg)	6.7 (.31)	15.75 (7.14)	3 (1.36)	21.5 (9.75)	1.5 (.7)	6 (2.7)



CUSHCRAFT
CORPORATION

A14820T 2 Meter Hi-Lo Cross Yagi

Here's the antenna that solves multi-mode problems! Ten vertically polarized and ten horizontally polarized elements provide 11.1 dBi gain covering 144-148 MHz. The horizontal elements handle your CW and SSB needs, while the vertical elements cover FM. Hardware is stainless steel. Separate coax feeds allow polarization changes.

A14820T has a boom length of 11 ft. (3.4m), longest element length of 40.6 in. (103cm), wind area of 1.21 ft² (.11m²), and a mast size of 1.25-2 in. (3.2-5.1 cm).



224WB 220 MHz Widebands

These 222 MHz beams are perfect for Packet, FM repeaters, or sideband/CW. Both antennas can be mounted for vertical or horizontal polarization.

MODEL	224WB	A14820T
Frequency, MHz	222-225	144-148
No. Elements	4	10/10
Forward Gain, dBi	10.2	13
Front to Back Ratio, dB	24	24
SWR 1.2:1 Typical		
2:1 Bandwidth, MHz	>5	>4
Power Rating, Watts PEP	2000	1000
3dB Beamwidth, Degrees		
E Plane	60	45
H Plane	88	50
Side Lobe Attenuation, dB E Plane	40	40
Boom Length, ft (m)	3 (.91)	11(3.4)
Electrical Wavelength	0.5	1.6
Longest Element, in (cm)	26.7 (68)	40.6 (103)
Turning Radius, ft (m)	3 (.91)	7.5 (2.3)
Mast Size Range, in (cm)	1.25-2 (3.2-5.1)	1.25-2 (3.2-5.1)
Wind Load, ft ² (m ²)	.23 (.021)	0.39(0.11)
Weight, lb (kg)	1.7 (.77)	7 (3.15)

A4496S/A44911S

Use one of these 440 MHz beams for your FM/Packet needs. Both work great for vertical or horizontal polarization.



MODEL	719B	A4496S	A44911S
Frequency, MHz	430-450	440-450	440-450
No. Elements	19	6	11
Forward Gain, dBi	15.5	10.5	13.2
Front to Back Ratio, dB	25	18	20
SWR 1.2:1 Typical			
2:1 Bandwidth, MHz	20	>10	>10
Power Rating, Watts PEP	2000	350	350
3 dB Beamwidth, Degrees			
E Plane	24	60	48
H Plane	19		
Side Lobe Atten., dB, E Plane	60		
Boom Length, ft (m)	13.5 (4.1)	2.9 (0.89)	4.2 (1.35)
Electrical Wavelength	6		
Longest Element, in (cm)	13.75 (34.9)	13 (33)	13 (33)
Turning Radius, ft (m)	7.25 (2.2)	2.9 (.89)	2.8 (.85)
Mast Size Range, in (cm)	1.25-2 (3.2-5.1)	1.25-2.0 (3.2-5.1)	1.25-1.5 (3.2-3.8)
Wind Load, ft ² (m ²)	1.2 (.11)	0.30 (0.03)	0.39 (0.04)
Weight, lb (kg)	5.6 (2.55)	3 (1.4)	4 (1.8)

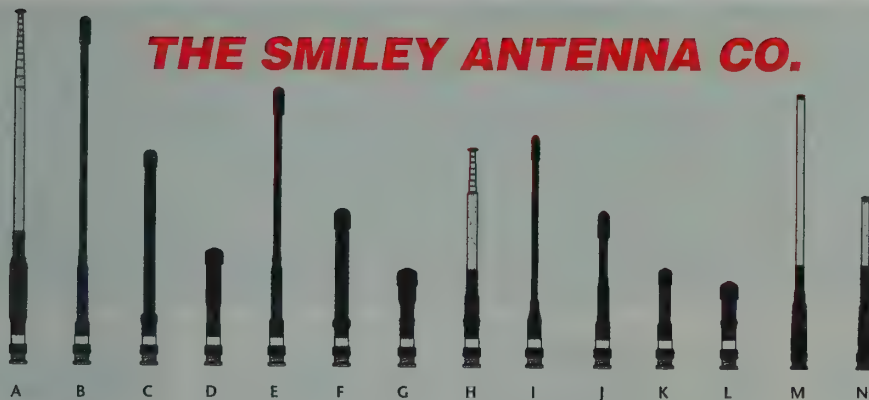


719B FM, CW and SSB 15.5 dBi

Looking for an antenna to enhance performance on all modes of the 70 CM band? The 13.5 foot long 719B is the right choice. Mount it vertical for FM or horizontal for CW and Sideband. The 719B joins the 2 meter 13B2 as a classic for improved performance.



THE SMILEY ANTENNA CO.



HAND TUNED ANTENNAS FOR HANDHELD RADIOS

Each Smiley antenna is individually tuned to resonance at band center under normal operating conditions (no ground plane, no radials). They're manufactured from the finest heat-treated copper plated spring steel coils. Cold rubber compound is used for coil insulation with a neoprene heat-shrink coating applied for strength and endurance. All have BNC connectors.

TS Thin Stick 1/4-wave telescoping dual band antenna for 144 and 220MHz bands **\$16.99**

SS-II Super Stick II (A) 2M, 5/8-wave, flexible base loaded telescoping antenna. 6-9db gain fully extended. Usable fully collapsed, or one section 1/4 wave. 54" extended, 10" collapsed..... **\$19.99**

SS-II/COMBO Super Stick II Combo Same as above, but includes a 2m stubby duck..... **\$26.99**

5/8 SLD-2 5/8 Slim Duck (B) 2m, 5/8-wave, 7db gain, flexible base loaded ant. 12" long **\$17.99**

5/8 SLD-2 COMBO 5/8 Slim Duck Combo As above, but includes a 2m stubby duck..... **\$24.99**

RD-2 Regular Duck (C) For 2m. Tuned ducks show a 3db gain over other rubber ducks because they are impedance matched for HTs..... **\$14.99**

RDS-2 Stubby Duck (D) Tuned, for 2m.. **\$14.99**

SS-III Super Stick III 220MHz 5/8-wave, flexible base loaded telescoping antenna. 6-9db gain extended; usable collapsed, or a one-section 1/4-wave. 36" extended, 8 1/2" collapsed..... **\$19.99**

SS-III/COMBO Super Stick III/Combo As above, but incl. a 220MHz stubby duck **\$26.99**

5/8 SLD-220 5/8 Slim Duck (E) 220MHz, 7db gain, flexible base loaded 9" antenna..... **\$17.99**

5/8 SLD-220 COM 5/8 Slim Duck Combo Same as above, but includes a 220MHz stubby duck antenna **\$24.99**

RD-220 Reg. Duck (F) 220MHz, tuned... **\$14.99**

RDS-220 Stubby Duck (G) As above..... **\$14.99**

SS-IV Super Stick IV (H) 440MHz 5/8-wave, flexible telescoping ant. 6-9db gain extended; usable collapsed. 18" extended, 5 1/2" collapsed..... **\$19.99**

SS-IV/COMBO Super Stick IV Combo Same as above, plus has 440MHz stubby duck..... **\$26.99**

SL-440 Slimline (I) 440MHz, 1/4-wv. flex. **\$12.99**

5/8 SLD-440 5/8 Slim Duck (J) 440MHz, 7db gain, flexible base loaded 5" antenna..... **\$17.99**

5/8 SLD-440 COM 5/8 Slim Duck Combo As above, plus has a 440MHz stubby **\$24.99**

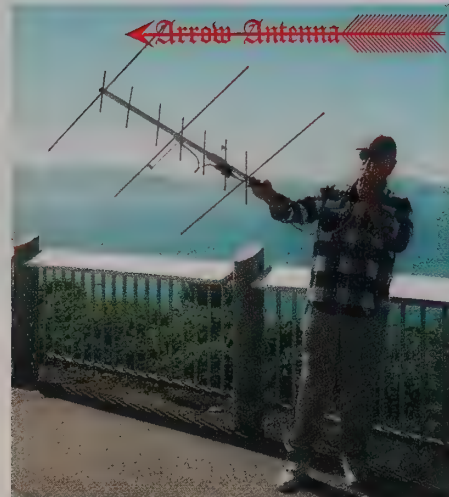
RDS-440 Stubby (K) 440MHz, tuned..... **\$14.99**

RDMD-440 Mini Duck (L) As above..... **\$14.99**

FLX 1/2 WAV-2M Flex-Coil (M) 2M, 1/2-wave, 7-9db gain, flexible base, 35" fully extended **\$25.99**

270A (N) Telescoping 2m/440 gain antenna. 1/4-wave (2m) 5/8-wave (440MHz). The 270A is also available with SMA **\$19.99**

TAQ 1/4-wave whip antenna, specify for 2M, 220 or 440MHzeach **\$10.99**



146/437-10 KK5YY, above, working VE6EGN on the AO27 satellite using a Yaesu VX-1R, with 500mW output, connected to an Arrow 146/437-10. The Arrow is designed specifically to allow portable satellite operation using just an HT. Meaning, it's engineered to provide maximum gain and efficiency within a small size and weight. The boom construction is 3/4" square aluminum stock, 37.5" long with a foam grip on the back end for comfort. The three VHF and seven UHF Gamma matched elements with separate BNC connectors are aluminum arrow shafts which are strong and lightweight, and plastic tipped for safety .. **\$73.99**
146/437-10BP Split boom model **\$79.99**



MP-1 Versatile Portable HF Antenna (pictured with optional tripod) Ideal for use with the FT-817, K2 or other rigs from QRP to 150 Watts. Coverage is 40-6 meters and 80 meters with optional coil assembly. Comes with a telescopic whip section, and universal mount consisting of a three-piece adjustable bracket with antenna mount, C-clamp and three 10-foot counterpoise wires. 5.5 ft **\$150.99**



MP-80 80 meter coil..... **\$25.99**

FT817MKT FT-817 Mount (upper left) Includes swivel bracket and antenna mount. Requires a short coax connection to radio **\$20.99**

MBKT Mobile Kit (right) Includes 4' solid whip to replace telescopic unit and 2 ft. base rod.. **\$15.99**

TRPD Universal Tripod **\$20.99**

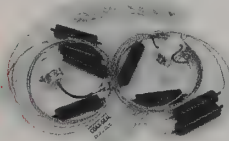
Maldor **NEW**

MH-610 2M/220/70cm Triband HT Antenna (right) An SMA antenna that dramatically improves TX and RX on the new triband HT's, particularly 220MHz. The 14-inch, super-flex whip is almost unbreakable! **\$49.99**

Used & Demo
Equipment lists

Updated regularly on the web
Check them out and order **On-line**

ANTENNA SUPERMARKET



EAVES TWIN The Eavesdropper Shortwave Broadcast Receiving Antenna A 42 ft. long center-fed dipole with 8 automatic bandswitching trap circuits which electrically separate the antenna segments - just tune your receiver to the desired band. The Eavesdropper covers the 11, 13, 16, 19, 21, 25, 31, 41, 49, 60, 75 and 90 meter bands. Includes The Zap-Trapper® gas-tube lightning arrestor for receiver protection and 50 ft. of 450-pound test support rope. Completely assembled, ready to use. With 100' of 72Ω twin lead **\$89.99**

EAVES SO239 With weather-proofed SO-239 coaxial center connector, coax not included. **\$89.99**

DIAMOND ANTENNAS

The Standard By Which All Others Are Judged.

Acclaimed as the technological leader in single & multiband antennas

- Wide-band Performance • Factory Adjusted—No Tuning Required • Highest Gain
- UPS Shippable • High Wind Rating • Fiberglass Radome • DC Grounded • Stainless Hardware

X500HA (UHF-Conn.) X500HNA (Type-N Conn.) Ruggedized Base/Repeater Antenna

X50NA

The X50NA is an excellent choice where ruggedness is required in a medium-gain, dual-band, base/repeater application.

Features

- Wide frequency bandwidth
- Heavy duty fiberglass radome
- Stainless steel mounting hardware and radials
- Type-N Cable connection
- Compact size for easy mounting/installation

Specifications:

Freq.: 2m: 144-148MHz
70cm: 440-450MHz
Gain: 2m: 4.5dB; 70cm: 7.2 dB
Power: 200 watts
Wind Rating: 135 MPH (no ice)
Height: 5.6 feet

X500HNA

Diamond Antenna's best base station repeater antenna. Designed for strength and performance, the X500HNA is pretuned to achieve maximum gain in both the 2m and 70cm amateur bands.

Features

- Heavy duty fiberglass radome
- Overlapping outer shells for added strength
- Stainless steel mounting hardware and radials
- Strong, waterproof joint couplings
- Type-N Cable connection
- Wide band performance

Specifications:

Freq.: 2m: 144-148MHz 70cm: 440-450MHz
Gain: 2m: 8.3dB; 70cm: 11.7 dB
Power: 200 watts
Wind Rating: 90 MPH (no ice)
Height: 17.8 feet

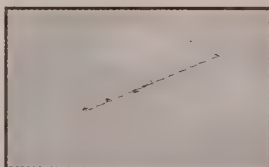


X50NA

X500HNA



A502HB



A504HB



A14455

NOTES:

- 1 Heavy duty aluminum construction.
- 2 F-718A: 440-450MHz, F718L: 420-430MHz.
- 3 X510NJ: 144-147/430-440MHz.
- 4 1/4λ, rated in dBi.
- 5 2m: 146-148; 100 watts
- 6 52-54MHz. only

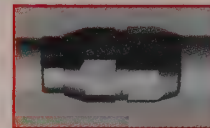
BAND: 144=144-148MHz., 222=222-225MHz., 420=420-430MHz., 430=430-440MHz., 440=440-450MHz., 1240=1240-1300MHz.



COAX CONNECTION
AT BASE END



HEAVY DUTY BASE/
RADIAL ASSEMBLY



STRONG JOINT
COUPLINGS

DIAMOND Mono-Band Base/Repeater Antennas

MODEL	BAND (MHz)	GAIN (dB)	WATTS	CONN.	HT. FT.	RATED WIND MPH (No. Ice)
CP22E ¹	144	6.5	200	UHF	9.0	90
DPGH62 ¹	50	6.0	200	UHF	21.0	78
F22A	144	6.7	200	UHF	10.5	112
F23A	144	7.8	200	UHF	15.0	90
F718A ²	440	11.5	250	N	15.0	90
G200	2.4GHz	11 dBi	—	N	4.8	135

DIAMOND Dual-Band Base/Repeater Antennas

MODEL	BAND (MHz)	GAIN (dB)	WATTS	CONN.	HT. FT.	RATED WIND MPH (No. Ice)
X50A	144/440	4.5/7.2	200	UHF	5.6	135
X50NA	144/440	4.5/7.2	200	N	5.6	135
X200A	144/440	6.0/8.0	200	UHF	8.3	112
X510NA ³	144/440	8.3/11.7	200	N	17.2	90
X510MA	144/440	8.3/11.7	200	UHF	17.2	90
X500HNA	144/440	8.3/11.7	200	N	17.8	90+
X700HNA	144/440	9.3/13.0	200	N	24.0	90
U200	440/1240	8.3/11.7	100	N	5.9	135

DIAMOND Tri-Band Base/Repeater Antennas

MODEL	BAND (MHz)	GAIN (dB)	WATTS	CONN.	HT. FT.	RATED WIND MPH (No. Ice)
V2000A ^{4,6}	52/144/440	2.1/6.2/8.4	150	UHF	8.3	110
X3200A ⁵	146/222/440	6.0/7.8/8.0	100/200	UHF	10.5	112
X6000A	144/440/1240	6.5/9.0/10.0	100/60	N	10.5	112

Most requirement: 1.4"-2.4"

DIAMOND Yagi Antennas

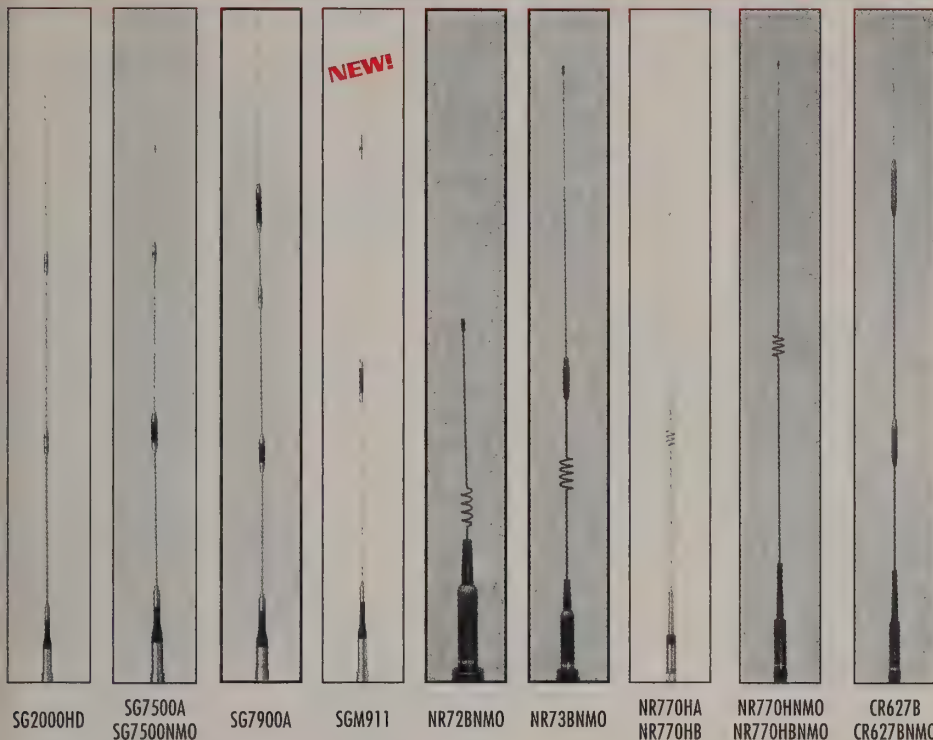
MODEL	BAND (MHz)	GAIN (dBi)	WATTS (PEP)	CONN.	BOOM LNTH.	ELEMENT PHASING
A502HB	50	6.3	400	UHF	2.6'	2 element
A504HB	50	10.8	400	UHF	10.7'	4 element
A144S5	144	9	100	UHF	37.5"	5 element
A430S10	432	13	100	UHF	43"	10 element
A430S15	432	14.8	100	UHF	89"	15 element



DIAMOND'S STATE-OF-THE-ART

VHF/UHF And HF/VHF Mobile Antennas—
Maximum Performance Without Compromise

You've seen the rest...now own the BEST!



SPECIAL FEATURES:

- Factory pre-tuned/no adjustment
- Highest Performance antennas
- NMO and UHF (PO) base styles
- 24 Kt gold plated connector pin
- No grounding required unless noted
- Fold-over feature on most models

MODEL	BAND (MHz)	GAIN (dB)	WATTS	CONN.	HT. IN.	ELEMENT PHASING
MR77	2m/70cm	2.15/3.4	70	MAG	20	1/4λ, 1/2λ
MR77SMA	2m/70cm	2.15/3.4	70	MAG	20	1/4λ, 1/2λ
NR72BNMO* ⁶	2m/70cm	2.15	100	NMO	13.8	1/4λ, 1/2λ
NR73BNMO	2m/70cm	2.15/5.3	100	NMO	33.5	1/2λ, 1-5/8λ
NR770HA ⁷	2m/70cm	3.0/5.5	200	UHF	40.2	1/2λ, 2-5/8λ
NR770HNMO ⁸	2m/70cm	3.0/5.5	200	NMO	38.2	1/2λ, 2-5/8λ
NR770RA	2m/70cm	3.0/5.5	200	UHF	38.6	1/2λ, 2-5/8λ
SG7000A* ⁶	2m/70cm	2.15/3.8	100	UHF	18.5	1/4λ, 6/8λ
SG7500A	2m/70cm	3.5/6.0	150	UHF	40.6	1/2λ, 2-5/8λ
SG7500NMO	2m/70cm	3.5/6.0	150	NMO	41.0	1/2λ, 2-5/8λ
SG7900A*	2m/70cm	5.0/7.6	150	UHF	62.2	7/8λ, 3-5/8λ
SGM510	2m/70cm	2.15/5.5	100	UHF	37	1/2λ, 2-5/8λ

* Not recommended for Magnet Mount

⁶ Grounding required.

⁷ NR770HB same specifications but in black finish.

⁸ NR770HBNMO same specifications but in black finish.

⁹ 52-54MHz only

1/4λ rated in dBi.

HV7A Mobile Antenna System

For New HF/VHF transceivers
(Such as: IC706 series and FT100)

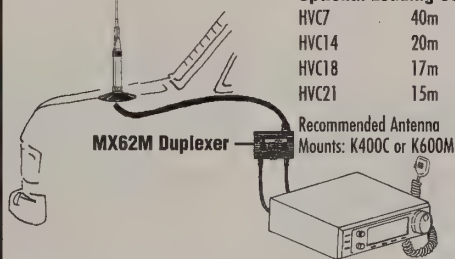
The NEW HV7A has 5 band capability: 70cm, 2m, 6m, and 2 HF bands through use of loading coils. Foldover feature allows for easy access into low overhead buildings. Ideal for users of IC706 series and FT100 radios.

NEW!

Bands Supplied: 10m/6m/2m/70cm
Opt. Loading Coils: 40m/20m/17m/15m
Power, P.E.P.: HF 120w/VHF 200w
Mount Connection: UHF
Length: 54"
SWR: 1.5:1 nominal

Optional Loading Coils

HVC7 40m
HVC14 20m
HVC18 17m
HVC21 15m



FOLD-OVER



Patented One-Touch Fold-Over Feature.

(Not available on M285, M685, MG200, MR77, MR77SMA, NR72BNMO & NR73BNMO)

MODEL	BAND (MHz)	GAIN (dB)	WATTS	CONN.	HT. IN.	ELEMENT PHASING
NR2C	2m	4.1	150	UHF	55.5	1/2λ+1/4λ
SG2000HD*	2m	5.2	250	UHF	62.6	1/2λ+3/8λ
CR320A* ⁶	2m/1-1/4m 70cm	2.15/3.8 5.5	200/100 200	UHF	37.4	1/4λ, 1/2λ 2-5/8λ
CR627B* ^{6,9} CR627BNMO* ^{6,9}	6m/2m 70cm	2.1/4.5 7.2	120	UHF/NMO	60	1/4λ, 1/2+1/4λ 2-5/8λ
HF6FX* ⁶	6m	2 dBi	250	UHF	40	1/4λ
HF50CX* ⁶	6m	3.5 dBi	200	UHF	75	3/8λ
NR22L*	2m	6.5	100	UHF	96.8	2-5/8λ
NR2000NA	2m/70cm 23cm	3.15/6.3/9.7	100	N	39	1/2λ, 2-5/8λ 5-5/8λ
M285	140-174	3.4	200	UHF	52.4	5/8λ
M685* ⁶	6m	2.15 dBi	200	UHF	52.4	1/4λ
MG200	2.4GHz	7 dBi	-	N	23.6	3-1/2λ
SGM911* ^{6,9}	6m/2m/70cm	2.15/3/5.8	60	UHF	41	1/4λ, 1/2λ, 2-5/8λ

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High Efficiency HT & Scanner Antennas


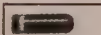
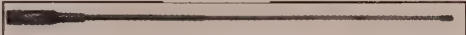

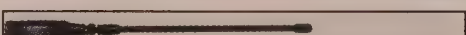
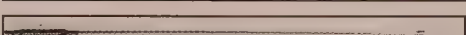
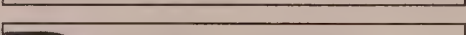
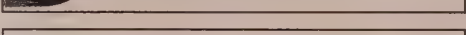
HF Multiband Vertical Antenna

Duplexers & Triplexers

Dummy Loads & Coaxial Switches

RH Series

High quality, high gain HT antennas for mono, dual, and tri-band handheld radios. Available in both BNC and SMA connections. Increase the performance on your handheld or wideband scanner with a Diamond RH or SRH Series antenna.

RH3		SRH805		SMA
RH77CA				
RH951S				
RH707				
RH205				
SRH519 & SRH815				SMA
SRH999				SMA

NEW

MODEL	DESCRIPTION	RELATIVE GAIN*
DI30J	Wideband discone 25-1300 MHz. 200 W transmit 50-1300 MHz. No cable.	N/A
RH3	2m/70cm dual band "Black Bullet" HT antenna. 1.75" BNC. 120 to 900 receive	-2 dB
RH77CA	High gain 2m/70cm dual band HT antenna. Receive range to 900 MHz. BNC.	+6 dB
RH205	2m HT antenna, telescopic, 5/8λ fully extended, 47.5"; 1/4λ retracted, 9"	+9 dB
RH519	2m/70cm slim dual-band HT antenna. Flexible. 8" BNC, 10 watts.	+3 dB
RH707	2m/70cm dual-band -tiltable whip - HT antenna. 8 1/4" BNC.	+3 dB
RH951S	High gain 2m/70cm/23cm slim tri-band HT antenna. Flexible. BNC (Wide band receive)+6 dB	+6 dB
SRH519	2m/70cm dual-band HT antenna. Flexible. 8" SMA, 10 watts.	+3 dB
SRH805	2m/70cm/23cm tri-band HT antenna. 1.75" SMA, 10 watts.	-2 dB
SRH815	2m/70cm/23cm tri-band HT antenna. Flexible. 6" SMA, 6 watts.	+3dB
SRH999	6m/2m/70cm/23cm quad-band HT antenna. Flexible. 19.5" SMA, 10 watts.	+3dB

*Rated against typical stock HT antennas.

DL30A/DL30N



CX210A/CX210N



CX310A



MODEL	DESCRIPTION
CX210A	Heavy duty wideband coax switch, DC-1000 MHz. 1.5 kW, SO-239
CX210N	Heavy duty wideband coax switch, DC-1500 MHz. 1.5 kW, Type N
CX310A	Heavy duty wideband coax switch, 3 position, DC-800MHz, SO-239
DL30A	Dummy load, DC-500 MHz. 15w average/100w peak. PL-259
DL30N	Dummy load, DC-500MHz. 15w average/100w peak. Type N

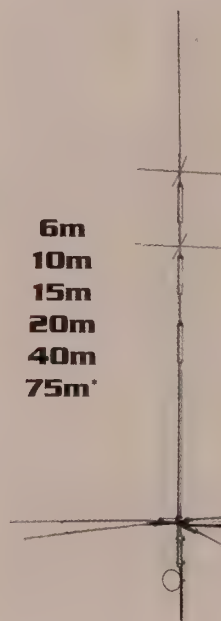
CP6A HF MULTIBAND VERTICAL

The New CP6A multi-band trap-vertical antenna for HF bands, covering the 75*, 40, 20, 15, 10 and 6m amateur bands. Made from heavy-duty aluminum, the CP6A assembles easily, yields excellent performance and reliability from a compact base station antenna. Its compact size allows for many mounting options. Minimum 15 feet diameter required for mounting radials. No additional ground radials required. Mounting hardware included.

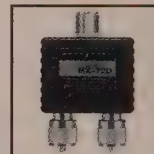
*75m requires a tuner.

Specifications

Frequency:	75*/40/20/15/10/6m
Power:	200w PEP
Impedance:	50Ω
VSWR:	1.5:1 nominal
Element:	1/4 wave trap vertical
Radials:	Trap design, six
Grounding:	Direct grounding.
	Antenna element & radials connected to mounting pipe.
Max. Wind Rating:	80mph (no ice)
Max Diameter	
Acctance:	1.2-2.4"
Overall Length:	15.10' (4.6m)
Weight:	9.9lbs. (4.9kg)
Connector:	SO-239 female UHF
Bandwidth:	75m 20kHz
(for nominal	40m 40kHz
1.5:1 VSWR	20m 100kHz
without	15m 200kHz
antenna	10m 500kHz
tuner)	6m 3.5MHz



MX-72D



MX-72H/N



Duplexers/Triplexers

MODEL	MX72D	MX72H	MX72N	MX2000			MX62M	
FREQUENCY BAND (MHz)	LPF 1.6-30	140-150	HPF 400-460	LPF 1.6-60	8PF 110-170	HPF 300-950	LPF 1.6-56	HPF 76-470
PWR CW (ICAS) WATTS P.E.P.	400 1000	150 400	100 250	800 800	500		600	
THRU LOSS/dB	0.15	0.15	0.25	0.15	0.2	0.25	0.2	0.3
ISOL		60dB			60dB			50dB
VSWR		1.2:1			1.2:1			1.2:1
CONNECTOR COMPLEMENT	MIX 144 430 M M	MIX 144 430 M M	MIX 144 430 M N	MIX 50 144 430 M M M			MIX HF VHF M M	
CONNECTOR	Direct	12" Cable w/Connectors		12" Cable w/Connectors			12" Cable w/Connectors	

DIAMOND'S Premium Antenna Mounts & Cable Assemblies

Designed for today's high performance antennas

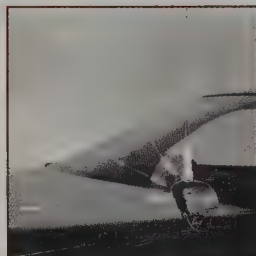
K9000

Motorized Mount

Raise and lower your antenna with a touch of a button. Vertical adjustment 0-9°. Accepts "ground independent" antennas up to 45". Recommended antennas: SG7500NMO, NR73BNMO, SG7500A, NR2C and NR770 series.

K9000TM Trunk/Hatchback Mount
K9000LRM Luggage Rack Mount

* Use C-Series cable assemblies.



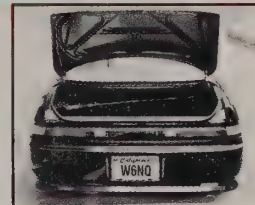
K412

Light Duty Hatchback/ Door Trunk Lid Mount

Two-axis adjustable mount for light weight antennas. 1.5 inch mounting width. Ideal for tight mounting options. Recommended for antennas under 45".

K412C SO-239 base, 6.5' coax & PL-259
K412CNMO NMO base, 6.5' coax & PL-259

* Use C110 for front radio installations.



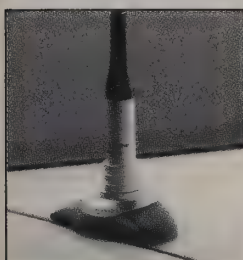
K601

Hide-Away Mount

Folds antenna safely into trunk. Fully adjustable, fits most vehicles. Recommended antennas: NR2C, NR73BNMO, NR770HNMO, NR770HA, NR770HBNMO, NR770HB, NR770RA, SG7500A, SG7500NMO and SGM510.

K601M SO-239 base, 6.5' coax & PL-259
K601NMO NMO Base, 6.5' coax & PL-259

* Use C110 for front radio installations.

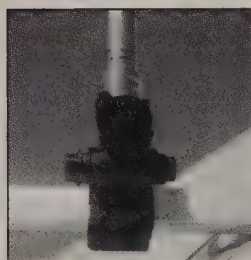


K600

Variable Angle Trunk Mount

Deluxe aerodynamic trunk mount. Vertical adjustment 0-9°. 4" wide mounting base with 4 set screws for maximum strength. Recommended for high gain VHF/UHF antennas.

K600M SO-239 base, 16.5' coax & PL-259



K550

Luggage Rack Mount

Adjustable luggage rack mount for new mini vans. Recommended for antennas under 45".

K550KM SO-239 base, 13' coax & PL-259
K550 Mount Only

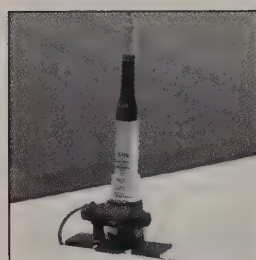
K400

Hatchback/Door Trunk Lid Mount

Diamond's deluxe heavy duty mount. Two-axis adjustable. 4" wide mounting base with 4 set screws for maximum strength. Recommended for high gain VHF/UHF antennas.

K400C* SO-239 base, 6.5' coax & PL-259
K400CNMO* NMO base, 6.5' coax & PL-259

* Use C110 for front radio installations.

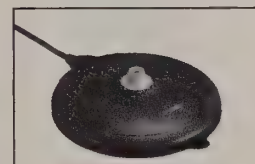


K540

Mirror/Luggage Rack Mount

Adjustable Mirror/Luggage rack mount accepts 1/2" to 7/8" tubing. Fits most mirrors and utility racks. Recommended for antennas under 45".

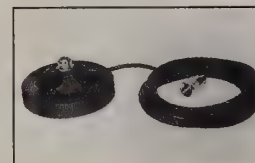
K540KM SO-239 base, 13' coax & PL-259
K540 Mount Only



K702M

Magnet Mount Base

Deluxe low profile magnet mount with high holding power. Aerodynamic styling, large 6 3/8" diameter, 3/4" height. For VHF/UHF antennas up to 50" height. Includes thin mylar protective sheet to enhance grip and protect vehicle paint. Cable: 13' RG58A/U & PL-259.



SPM35

Magnet Mount Base

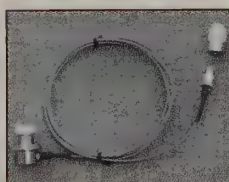
Heavy duty 2.2 lb./4" magnet mount rated 25-500 MHz. Cable: 13' coax and PL-259. Recommended for antennas under 45".

SPM-NMO

Magnet Mount Base

Similar to the SPM35, but has NMO mount.

C-SERIES CABLE ASSEMBLIES



C101

SO-239 base, 6.5' RG316 Teflon coax & PL-259. Ideal cable assembly for trunk mount radios.

C101NMO

Same as C101 with NMO base. For Diamond's K-Series mounts.

C213

Same as C101, 13.5' length.

C213NMO

Same as C101NMO, 13.5' length.



C110

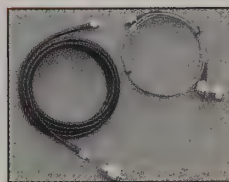
Extension for C101. 10' RG8X coax w/mini UHF Conn. Use C110 to extend cable for front radio installations.

C110BNC

10' assembly similar to above, uses RG316 Teflon coax terminating in BNC-male.

C110SMA

Similar to C110BNC, terminating in SMA male.



C211

SO-239 base, 16.5' cable assembly & PL-259. Combination of C101 & C110.

C104SMA

4' extension cable for HT's with SMA connector. For existing cable assemblies with PL-259. UHF female (SO-239) to right angle SMA male.

C105SMA

5' extension cable for C101. RG58/U cable, terminating in right angle SMA male.

K400-3/8 C

Special Trunk Mount for 3/8 x 24 Thread Antennas

Ideal mount for Outbacker Perth, OB Jr., and other medium weight antennas.

Note: Use C110, 10ft extension for front radio installation

Adjustment: 2 axis
Power: 350 watts RMS
500 w P.E.P.
Cable 6 1/2' RG316 Teflon
coax w/PL-259

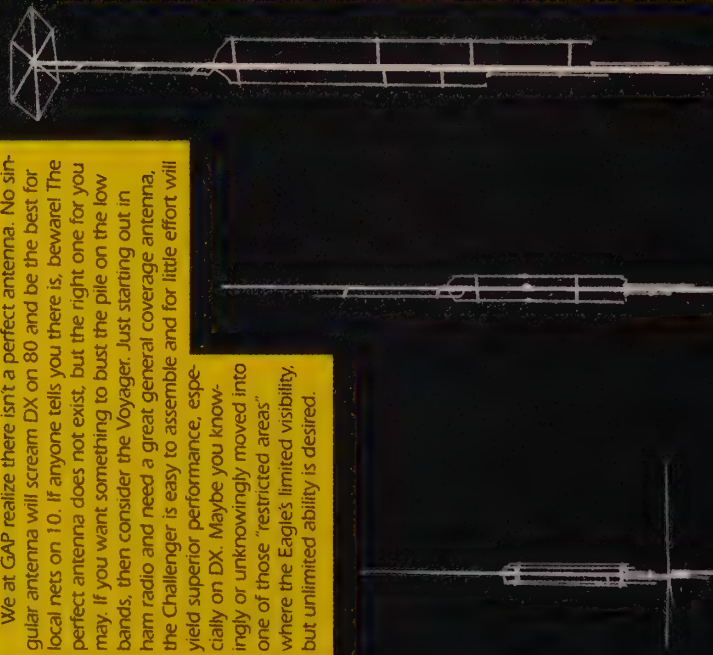
Spring recommended for stiff/heavy antennas



www.rfparts.com/diamond

GAP: THE PERFECT ANTENNA

We at GAP realize there isn't a perfect antenna. No singular antenna will scream DX on 80 and be the best for local nets on 10. If anyone tells you there is, beware! The perfect antenna does not exist, but the right one for you may. If you want something to bust the pile on the low bands, then consider the Voyager. Just starting out in ham radio and need a great general coverage antenna, the Challenger is easy to assemble and for little effort will yield superior performance, especially on DX. Maybe you knowingly or unknowingly moved into one of those "restricted areas" where the Eagle's limited visibility, but unlimited ability is desired.



Eagle DX

Challenger DX

Voyager DX

This chart helps you select the right GAP antenna. When comparing GAPs, bandwidth is not a concern. With few exceptions, a GAP yields continuous coverage under 2:1 for the ENTIRE BAND.

All antennas utilize a GAP elevated asymmetric feed. A major benefit is the virtual elimination of the earth loss, so more RF radiates into the air instead of the ground. This feed is why a GAP requires **NO RADIALS**. Just as elevating a GAP offers no significant improvement to its performance, adding radials won't either, making set up a breeze.

A GAP antenna has no traps, coils or transformers. This is important. The greatest sources of failure in multiband antennas are these devices. Perhaps you heard someone discuss a trap that had melted, arced or became full of water. Improvements to these inherent problems are the focus of the antenna manufacturer, while the basic design of the antenna remains unchanged. **GAP improved the trap by eliminating it!** Removing these devices means they don't have to be tuned and, more importantly, won't be detuned by the first ice or rain. The absence of these devices improves antenna reliability, stability and increases bandwidth.

Another major advantage to a GAP antenna is its NO tune feature. Screws are simply inserted into predrilled holes with a supplied nutdriver.

The secret is out and people in the know say:

CQ—The GAP consistently outperformed base-fed antennas...and was quieter."

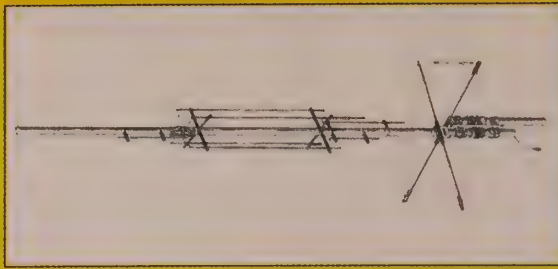
73—This is a real DX antenna, much quieter than other verticals."

RF—To say this antenna is effective would be a real understatement. Switching back and forth on 40m between another multiband HF vertical and the GAP; there was no comparison. Signals were always stronger on the GAP, sometimes by 5 units, not just DBs."

Worldradio—These guys have solved the problem associated with verticals. That is, an awful lot of RF is wallowing around and dropping into the dirt instead of going outward bound. A half-wave vertical does need radials if it is end fed (at the bottom). But the same half-wave vertical does not (as much, hardly at all) if it is fed in the center."

IEEE—Near field and power density analyses show another advantage of this antenna (asymmetric vertical dipole): it decreases the power density close to the ground, and so avoids power dissipation in the soil below it. The input impedance is very stable and almost independent of ground conductivity. This antenna can operate with high radiation efficiency in the MF AM standard broadcast band, without the classical buried ground plane, so as to yield easier installation and maintenance."

Latest Release: **TITAN DX**



This all purpose antenna is designed to operate 10m-80m. WARC bands included. It sits on a 1-1/4" pipe and can be mounted close to the ground or up on a roof. Its bandwidth and no tune feature make it an ideal antenna for the limited space environment as well as a terrific addition to the antenna farm.

GAP

**ANTENNA
PRODUCTS, INC.**
99 N. Willow Street
Fellsmere, FL 32948
tel: (861) 571-9922
web: gapantenna.com

TO ORDER, CALL AES...

1-800-558-0411

MODEL	BANDS OF OPERATION										HT	WT	MOUNT	COUNTER-POISE
	2m	6m	10m	12m	15m	17m	20m	30m	40m	80m	160m			
Challenger DX	■	■	■	■	■	■	■	■	■	■	■	21 lbs	Drop In Ground Mount	3 Wires @ 25'
Eagle DX		■	■	■	■	■	■	■	■	■	■	19 lbs	1-1/4" pipe	80" Rigid
Titan DX			■	■	■	■	■	■	■	■	■	25 lbs	1-1/4" pipe	80" Rigid
Voyager DX							■			■	■	39 lbs	Hinged Base	3 Wires @ 57'

See Price List for GAP Quick-Tilt Mounts, Counterpoise and Guy Kit Prices



Model G3-144

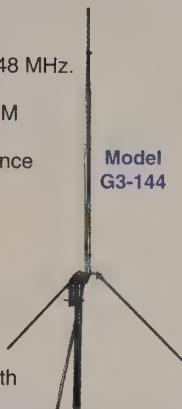
The G3-144 is the newest addition to the Hustler Base Station line. Designed with the cost conscious amateur in mind, this small, inexpensive antenna delivers more gain than other antennas in its price range. Ideal for a home or emergency command post

ELECTRICAL

- Frequency Range: 144-148 MHz.
- Gain: 3 dB
- Maximum Power: 1 KW FM
- Bandwidth: 4 MHz
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL

- Termination: SO-239
- Length: 7' 5"
- Weight: 2.0 lbs
- Wind Survival: 100 mph.
- Wind Area: 0.5 ft.²
- Mounting: 1 to 1 3/4"
- Construction: High strength fiberglass & aluminum.



Model G3-144

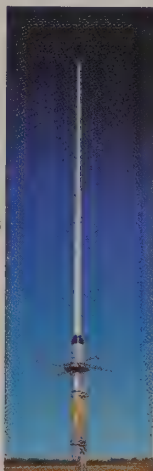
Model G6-270R Dual band 2 Meter & 440 MHz

ELECTRICAL

- Frequency range: 144-148 MHz, 435-455 MHz.
- Gain: 6 dB
- Maximum power: 100 Watts
- Bandwidth: 4 MHz – 2 Meters 10 MHz – 440 Meters
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL

- Termination: N female
- Length: 7' 6"
- Weight: 5.3 lbs.
- Wind Survival: 100 mph
- Wind Area: 1.4 ft.²
- Mounting: Up to 1 3/4"
- Construction: one piece radome



G6-270R

Model G6-440 (see photo above)

ELECTRICAL

- Frequency range: 440 - 450 MHz.
- Gain: 6 dB
- Maximum power: 1 KW FM
- Bandwidth: 10 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL

- Termination: Type N female
- Length: 7' 3"
- Weight: 5.0 lbs.
- Wind survival: 100 mph.
- Wind Area: 1.4 ft.²
- Mounting: Up to 1 3/4"
- Construction: one piece radome

VHF and UHF Omni Directional Fixed Station Vertical Antennas

Model G7-144 Two Meter

The G7-144 is totally self supporting and is easily assembled. When disassembled the longest part is approximately 4' which makes it easy to handle and ship via UPS.

ELECTRICAL

- Frequency Range: 144 - 148 MHz.
- Gain: 7 dB
- Maximum Power: 1 KW FM
- Bandwidth: 4 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL

- Termination: N female
- Length: 15' 4"
- Weight: 10.0 lbs.
- Wind survival: 100 mph
- Wind Area: 0.96 ft.²
- Mounting: Up to 1 3/4"
- Construction: High strength fiberglass & aluminum.



Model G6-144B Two Meter

(see photo above)

ELECTRICAL

- Frequency range: 143 - 149 MHz.
- Gain: 6 dB
- Maximum power: 1 KW FM
- Bandwidth: 6 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL

- Termination: SO-239
- Length: 9' 9"
- Weight: 6.8 lbs.
- Wind survival: 100 mph.
- Wind Area: 1.4 ft.²
- Mounting: Up to 1 3/4"
- Construction: High strength fiberglass & aluminum.

Model G7-220 (see photo above)

ELECTRICAL

- Frequency range: 220 - 225 MHz.
- Gain: 7 dB
- Maximum power: 1 KW FM
- Bandwidth: 5 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL

- Termination: Type N female
- Length: 10' 2"
- Weight: 7.0 lbs.
- Wind survival: 100 mph.
- Wind Area: 0.96 ft.²
- Mounting: Up to 1 3/4"
- Construction: High strength fiberglass & aluminum.

Fixed Station Multi-Band HF Vertical Antennas

Our exclusive trap design offers the lowest loss possible. A special extrusion process allows us to produce trap covers to an otherwise unattainable close tolerance, assuring accurate and permanent resonance. Our highly accurate traps provide top signal reports and consistent contacts.

Accurate tuning is made possible by the wide range of tuning flexibility designed into our verticals. Not only can you use the normal adjustable tubing to change resonance, but the traps themselves can be field tuned for an additional 2 MHz. shift. This flexibility will enable you to achieve a good S.W.R. even if your installation is not ideal.

- Broadbanded – low VSWR at band edges
- Power capability – full legal limit on SSB or CW
- Solid one inch fiberglass trap forms for optimum electrical and mechanical stability
- Heavy wall, high strength aluminum tubing, heavy duty aluminum mounting bracket and low loss, high strength insulators.
- Stainless steel clamps and hardware.
- Easy assembly and tuning.
- Single line feed with any length of 50 ohm coax.
- Use as ground mount with or without radials, or elevated mount with radials.
- All of the BTVs can be mounted in a piece of PVC and disguised as a flagpole in deed restricted neighborhoods.

Model 6-BTV

Bands 10-15-20-30-40 & 75 or 80 meters
Length/weight 24 ft. / 16.5 lbs.
Mounting Vertical support up to 1.75" O.D.
Wind Load 29 lbs. @ 70 mph.
Power capability Full legal limit SSB/CW
VSWR at resonance 1.15 to 1 or better
Bandwidth VSWR 2:1 or better at band edges on 10-40 meters (100 KHz. On 75 or 80 meters)

Model 5-BTV

Bands 10-15-20-40 & 75 or 80 meters
Length/weight 25 ft. 1 in. / 16.5 lbs.
Mounting Vertical support up to 1.75" O.D.
Wind Load 29 lbs. @ 70 mph.
Power capability Full legal limit SSB/CW
VSWR at resonance 1.15 to 1 or better
Bandwidth VSWR 2:1 or better at band edges on 10-40 meters (100 KHz. On 75 or 80 meters)

Model 4-BTV

Bands 10-15-20-40 meters
Length/weight 21 ft. 5 in. / 15 lbs.
Mounting Vertical support up to 1.75" O.D.
Wind Load 28 lbs. @ 70 mph.
Power capability Full legal limit SSB/CW
VSWR at resonance 1.15 to 1 or better
Bandwidth VSWR 1.6:1 at band edges

Model 30-MTK

30 meter add on kit for the 4 and 5 BTV

The Spirit Series

Hustler's omnidirectional, collinear design base station antennas are enclosed in a rugged fiberglass radome that will help minimize pattern variations due to high winds or extreme conditions. We offer these antennas in 144, 220, 440, 900 MHz and 1.2 Ghz. The gain will be unity, 3,6,9, or 12 dB depending on the frequency. Custom frequencies available, call AES for a quote.

www.new-tronics.com

New-Tronics Antenna Corporation
One New-Tronics Place
Mineral Wells, Texas 76067-9563

Phone: 940.325.1386
Toll Free: 877.994.9499
Fax: 940.328.1409

Unity Gain

THF

VHF/UHF Trunk Lip Mount Antennas.

- Frequency range: 140-500 MHz
- ¼ wave length
- Cut length for low VSWR
- 15 ft RG58/U with PL-259 connector



UHT-1

VHF/UHF Roof/Deck Hole Mount Antenna.

- Frequency range: 140-500 MHz
- ¼ wave length
- Cut length for low VSWR
- 15 ft RG58/U

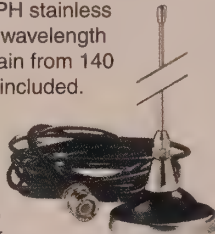


UGM

VHF/UHF Magnetic Mount Antenna

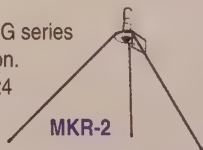
Extend the range of handheld or portable radios. Trimmable 17-7 PH stainless steel radiator is cut to ¼ wavelength for low SWR and unity gain from 140 to 500 MHz. Trim chart included.

Highly efficient mylar protected magnetic mount attaches conveniently to magnetic compatible surfaces. No drilling! Supplied ready for operation with 10 ft. of mini-coax with BNC connector



MKR-2 Radial Kit

Used to convert RX, SF & CG series coils to fixed station operation. Mount can accept any 3/8x24 threaded coil and contains three radials



Collinear

Series Fed Mobile Antennas

SF-2 144 MHz 3.4 dB

SF-220 220 MHz 3.4 dB

- Power rating: 100 watts
- 3/8" x 24 thread
- 5/8 wave

RX-2 144 MHz 3.4 dB

RX-220 220 MHz 3.4 dB

RX-440 440 MHz 5.0 dB

- Coil same as above
- 3 oz magnet
- 15 ft RG-58/U coax
- PL-259 connector



Collinear High Gain

Mobile Antenna

CG-144 5.2 dB 6 MHz

Bandwidth

CG-220 5.2 dB 4 MHz Bandwidth

- Power rating: 200 watts
- 3/8"x24 thread
- 5/8 over ¼ wave
- Collinear design

CGT-144 5.2 dB 6 MHz Bandwidth

CGT-220 5.2 dB 4 MHz Bandwidth

- Coil same as above
- Swivel ball for vertical positioning
- Quick disconnect for easy removal
- Trunk mount base
- 17 ft RG58/U coax
- PL-259 connector



VHF and UHF Mobile Antennas

MX Series NMO Magnetic Mount Antenna

MX-2 144 MHz 3.4 dB

MX-220 220 MHz 5.0 dB

MX-440 440 MHz 5.0 dB

- Power rating: 200 watts

- Chrome top
- NMO style coil
- 10 oz magnet
- 17 ft RG58/U coax & PL-259 connector

MX-2B 144 MHz 3.4 dB

MX-440B 440 MHz 5.0 dB

- Same as above but all black coil



BBG Series NMO Swivel Ball & Spring Antenna

BBG-144 3.4 dB

BBG-440-5 5.0 dB

- Power rating: 200 watts
- NMO style coil
- Chrome top, swivel ball and spring

BBGT-144 3.4 dB

BBGT-440-5 5.0 dB

- Same coil as above
- Includes Trunk mount
- 17 ft RG58/U coax & PL-259 connector



Dual Band 2 meter/ 70cm Mobile Antennas

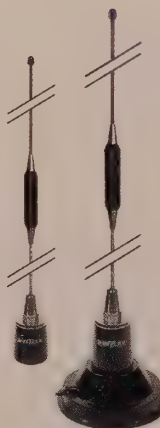
Hustler's new Dual Band antennas are designed to perform even in the toughest environments. Base coils are ultrasonically welded to ensure mechanical integrity and durability.

LMC-270

- 2.4 dB/4.0 dB gain
- Power rating: 100 watts
- NMO style coil
- Coil and whip only

MX-270

- 2.4 dB/4.0 dB gain
- Power rating: 100 watts
- NMO style magnetic mount
- 17 ft RG58/U coax & PL-259 connector



LM Series NMO Coils

LMG, LMC AND LMB Antennas are coil & whip only and require an NMO mount.

LMG-144 3.4 dB gain

LMG-440-5 5.0 dB gain

- Power rating: 200 watts
- NMO style coil

• Chrome top and bottom

• Contact-silver plated push pin

LMC-144 3.4 dB gain

LMC-440-5 5.0 dB gain

- Power rating: 200 watts
- NMO style coil

• Black coil with chrome top

LMB-144 3.4 dB gain

LMB-440-5 5.0 dB gain

- Power rating: 200 watts
- NMO style coil
- Black coil

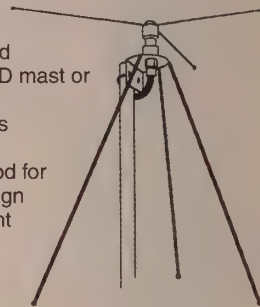


Scanner Base Station Antenna

Hear more at a greater distance with Hustler's external omnidirectional scanner antennas.

DCX

- 40 - 950 MHz
- Vertically polarized
- Mounts to 1 ¼" OD mast or flat surface
- 55" cone elements
- 20" disc elements
- Solid aluminum rod for high strength design
- Hardware & mount included



DCL

- Same as DCX
- 50 ft RG58/U coax with PL-259 on one end and BNC or Pin plug on the other end

Mobile Scanner Antenna

Hear all of the action in your car. Covers 30-50, 148-174, 430-450, 800-950 MHz

MRM

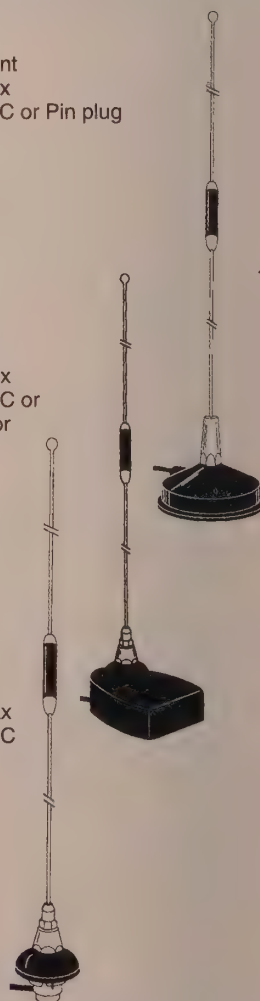
- 3 oz Magnet mount
- 12 ft RG58/U coax
- Available with BNC or Pin plug connector

MOT

- Trunk mount
- 15 ft RG58/U coax
- Available with BNC or Pin plug connector

MQR

- ¾" Roof or deck mount
- 12 ft RG58/U coax
- Available with BNC or Pin plug connector



New-Tronics Antenna Corporation

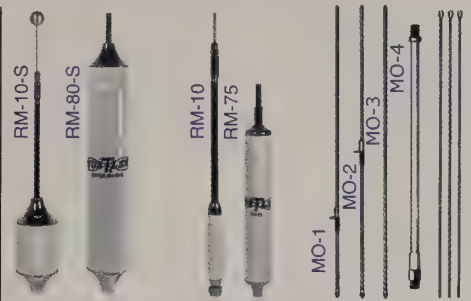
One New-Tronics Place
Mineral Wells, Texas 76067-9563

Phone: 940.325.1386
Toll Free: 877.994.9499
Fax: 940.328.1409

Amateur HF Mobile 10,12,15,17,20,30,40,75 and 80 Meter

If you are serious about HF mobile operation the **Hustler HF Mobile System** is the obvious choice. **Hustler** manufactures and sells more HF mobile antennas world wide than anyone. No other manufacturer offers the convenience, the flexibility or the pure performance that **Hustler** does. Our HF Mobile System offers a wide variety of components which enable you to customize your installation to fit your present and future needs. A choice of four different support masts provides an installation solution for every vehicle. A selection of seventeen interchangeable resonators in high and moderate power levels and varying bandwidths are available. A full complement of accessories such as springs, a multiband adapter and a quick disconnect device complete the system. Experience the satisfaction that comes with owning the best in the world — the **Hustler HF Mobile System**.

Model	Type	Band	Power SSB	Bandwidth 2:1 SWR	Weight lbs
RM-10	Standard	10 m	400 W	150-250 KHz	0.41
RM-11	Standard	11 m	400 W	150-250 KHz	0.41
RM-12	Standard	12 m	400 W	90-120 KHz	0.41
RM-15	Standard	15 m	400 W	100-150 KHz	0.42
RM-17	Standard	17 m	400 W	120-150 KHz	0.44
RM-20	Standard	20 m	400 W	80-100 KHz	0.46
RM-30	Standard	30 m	400 W	50-60 KHz	0.84
RM-40	Standard	40 m	400 W	40-50 KHz	0.84
RM-75	Standard	75 m	400 W	25-30 KHz	1.05
RM-80	Standard	80 m	400 W	25-30 KHz	1.05
RM-10S	Super	10 m	1 kW	250-400 KHz	1.00
RM-11S	Super	11 m	1 kW	250-400 KHz	1.00
RM-15S	Super	15 m	1 kW	150-200 KHz	1.20
RM-20S	Super	20 m	1 kW	100-150 KHz	1.25
RM-40S	Super	40 m	1 kW	50-80 KHz	1.80
RM-75S	Super	75 m	1 kW	50-60 KHz	2.10
RM-80S	Super	80 m	1 kW	50-60 KHz	2.10



Mobile HF Antennas Hustler Masts

MO-1

Mobile mast 54" length, for bumper, fender or hitch mounting. Folds over at 15" above base. Made of highest quality heat treated Stainless steel and aluminum parts. 3/8" x 24 threaded

MO-2

Mobile mast, 54" length, for bumper, fender or hitch mounting. Folds over at 27" above base. 3/8" X 24 threaded

MO-3

Mobile mast, 54" length, for bumper, fender or hitch mounting. solid aluminum with white vinyl coating.

Does not fold over. 3/8" X 24 threaded

MO-4

Mobile mast 22" length, trunk or deck mounting. Three retuning tip rods included. 3/8" X 24 threaded

Quick Disconnect

QD-2

100% Stainless Steel. Remove antenna from mount in seconds with push and twist release. Every part including the compression spring is manufactured from the best available 100% stainless steel. Special design of enclosed compression and lock assembly assures freedom against ice and dirt jam up. Accommodates small, medium and large mobile antennas. Equipped with 3/8" x 24 threads, female on one end and male on the other.



VP-1

Automatic bandswitching using any three Hustler HF resonators. Adapts any Hustler HF mast to tri-band operation. No additional tuning necessary.



Professional Chrome Series

C-32

Chrome plated 1 1/2" ball mount. Furnished complete with rubber pad, steel backup plate, all mounting hardware and hex key.

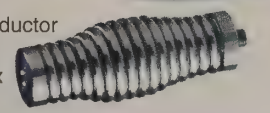
C-30

Chrome plated 4" spring. Copper braided center conductor to prevent detuning. Accepts 3/8" x 24 antennas



C-29

Stainless steel 4" spring. Copper braided center conductor to prevent detuning. Accepts 3/8" x 24 antennas



Resonator Spring

RSS-2

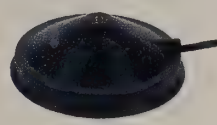
Finest quality stainless steel spring for use between resonator and Hustler antenna mast. This 3" spring absorbs shock when the antenna strikes overhanging obstructions. Supplied ready for easy installation with 3/8" x 24 threads, female on one end, and male on the other. Copper braided center conductor to prevent detuning.



Magnet Mount

MBM "Super" Magnet

- 95 lbs. Pull strength
- Powerful 5 inch diameter magnet
- 8 pole magnet
- 16 feet RG 58/U coax with PL-259 connector.
- 3/8" x 24 female threads
- Recommended for antennas up to 48".



Bumper Mount BM-1

Design is rugged for supporting Hustler antennas with the Standard or Super resonators.

Heavy stainless steel strap, stronger than chain, fits most bumpers inconspicuously. Assembly is easily installed and held rigid by "J" bolts at the top and a bumper strap clamp at the bottom.



Professional Stainless Steel Series

SSM-1

Heavy-duty mount with 4" stainless steel spring with copper braided center conductor to prevent detuning. 180 degree adjustable 2" diameter stainless steel ball. Accepts 3/8" x 24 antennas

SSM-2

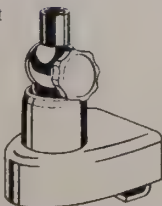
Heavy-duty 2" diameter stainless steel ball mount. 180 degree adjustable. Accepts 3/8" x 24 antennas.

SSM-3

Heavy-duty stainless steel 4" spring with 3/8" x 24 coupling stud. Copper braided center conductor to prevent detuning.



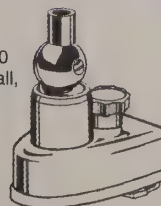
HLM Trunk lip mount designed for hatch and slanted back vehicles. 180 degree 1" diameter ball, which accepts 3/8 x 24 antennas. RG58/U coax with PL-259 connector.



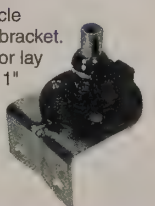
TLM Trunk lip mount, which accepts 3/8 x 24 antennas. RG58/U coax with PL-259 connector.



HOT Trunk lip mount with easy off/on by using thumb knob. 180 degree 1" diameter ball, which accepts 3/8 x 24 antennas. RG58/U coax with PL-259 connector.



RVM Recreational vehicle mount with heavy duty bracket. Easy antenna removal or lay down with thumb knob. 1" ball that accepts 3/8 x 24 antennas. RG58/U coax with PL-259 connector.



2M/70CM Dual Band Series Antennas

Radial/Larsen dual band antennas provide excellent performance for simultaneous use of VHF and UHF amateur frequencies. Each Radial/Larsen dual band antenna is factory preset to guarantee optimum performance with no tuning required.

NMO-2/70-SH \$38.99

Freq: 144-148/440-450 MHz
Gain: Unity
Power: 100 Watts
Type: VHF: Center Loaded 1/4
UHF: Center Loaded 3/4
Base: NMOUHFBASEB w/spring
Height: 17"
Whip: WNMO2/70SH

Lower profile amateur 2m/70cm dual band antenna with spring for NMO mounts.

NMO-2/70B (black) \$64.99

Freq: 144-148/440-450 MHz
Gain: 2.4/4dB
Power: 100 Watts
Type: VHF: 5/8 Wave
UHF: Collinear
Base: NMO2/70BCO
Height: 33.5"
Whip: W2/70B

Amateur 2m/70cm dual band antenna for NMO mounts. Available in chrome (below).

NMO-2/70C (chrome) \$59.99

Freq: 144-148/440-450 MHz
Gain: Unity
Power: 100 Watts
Type: VHF: 5/8 Wave
UHF: Collinear
Base: NMO2/70BCO
Height: 36.75"
Whip: W2/70

Amateur 2m/70cm dual band antenna for NMO mounts. Available in black (above).

MM-2/70 \$48.99

Freq: 144-148/440-450 MHz
Gain: Unity
Power: 100 Watts
Type: VHF: Center Loaded 1/4
UHF: Center Loaded 3/4
Base: 3" Round Mag Mount
Height: 17"
Whip: WNMOQ2/70B

Complete 2m/70cm magnetic mount antenna with 12' of RG58A/U coax.

NMOQ-2/70-B (black) \$34.99

Freq: 144-148/440-450 MHz
Gain: Unity
Power: 100 Watts
Type: VHF: Center Loaded 1/4
UHF: Center Loaded 3/4
Base: NMOUHFBASEB
Height: 18"
Whip: WNMOQ2/70B

Kulglass Series High Performance Glass Mount Antennas

Radial/Larsen's Kulglass™ (KG) series uses a patented low impedance design and advanced materials to produce the world's best on-glass antenna. The KG uses advanced resin polymer plastic to completely enclose the circuit board or loading coil for mechanical durability and weather resistance. 3M's best adhesive tape, plus Radial/Larsen's unique bonding enhancer ensure the best possible grip to the glass.

KG-2/70-CX-PL \$111.99

Freq: 144-148/442-448 MHz
Gain: 2.4/4.5dB*
Power: 50 Watts
Type: VHF: 1/2 Wave
UHF: Collinear
Base: KG2/700/S
Height: 32.5"

*Ground plane required for gain

Glass mount dual band antenna for 2m/70cm amateur radio frequencies.

KG-144-UD-PL \$76.99

Freq: 144-160 MHz
Gain: 2.4dB
Power: 100 Watts
Type: 1/2 Wave
Base: KG1440/S
Conn: PL-259
Height: 48"
Whip: WKG144

Complete KG glass mount antenna.

KG-220-UD-PL \$76.99

Freq: 220-225 MHz
Gain: 2.4dB
Power: 100 Watts
Type: 1/2 Wave
Base: KG2200/S
Conn: PL-259
Height: 26.5"
Whip: WKG220

Complete KG glass mount antenna.

KG-440-UD-PL \$70.99

Freq: 440-460 MHz
Gain: 2.4dB
Power: 100 Watts
Type: 1/2 Wave
Base: KG4400/S
Conn: PL-259
Height: 15"
Whip: WKG440

Complete KG UHF glass mount antenna with coax and connector.

Radial/Larsen Exclusive Kulduckie Portable Series

Superior transmit range and tough mechanical durability are the hallmark of Radial/Larsen portables. All center cores are made of brass or copper plated steel to maximize RF emission. Fully soldered connections and silver-plated components improve electrical efficiency. Double spring BNC's also reduce wear on the mount. Other styles available.

KD4-146 \$19.99

Freq: 144-148 MHz
Gain: Unity
Power: 25 Watts
Type: 1/4 Wave Helical
Conn: BNC
Height: 8"

KD4-146-HQ (2m) \$24.99

Freq: 144-148 MHz
Gain: Unity
Power: 25 Watts
Type: 1/4 Wave Helical
Conn: BNC
Height: 8"

KD-14-2M-HW \$37.99

Freq: 144-148 MHz
Gain: Unity
Power: 25 Watts
Type: 1/2 Wave Telescoping
Conn: BNC
Height: 8.5 to 42"
Whip: WKD142MHW

KD4-2/70 \$33.99

Freq: 144-148/442-448 MHz
Gain: Unity
Power: 25 Watts
Type: VHF: Loaded 1/4 Wave
UHF: 1/4 Wave

Conn: BNC
Height: 8"
Impedance matching transformer provides high Q and deeper resonance.

Hear The Difference

Industry's Best NMO Mobile Antennas

Radiall/Larsen's own version of the standard 3/4" Motorola TAD/TAE type mount uses advanced design, materials and construction to provide a premium mount. For demanding outdoor applications, the chemical resistant NMO series is housed in a resin polymer plastic shell which is completely molded around the nickel plated brass whip stud to eliminate moisture damage. Our superseal gasket also greatly reduces water intrusion under the base.

NMO-27C (chrome) \$33.99

Freq: 27-31 MHz
Gain: Unity
Power: 200 Watts
Type: Loaded 1/4 Wave
Base: NMO27BCO
Height: 53"
Whip: W490

NMOQ-SPEC \$12.99

Freq: 136-512 MHz
Gain: Unity
Power: 200 Watts
Type: 1/4 Wave
Height: 21"

NMO-150C (chrome) \$30.99

NMO-150B (black) \$33.99

Freq: 144-174 MHz
Gain: 3dBd
Power: 200 Watts
Type: 5/8 Wave
Base: NMO150BCO
Height: 51.75"
Whip: W490

NMO-220C (chrome) \$30.99

NMO-220B (black) \$36.99

Freq: 220-225 MHz
Gain: Unity
Power: 200 Watts
Type: 5/8 Wave
Base: NMO220BCO
Height: 34.5"
Whip: W400

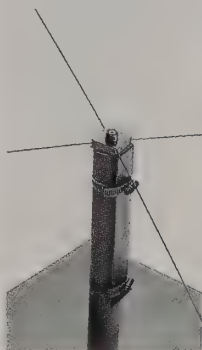
NMO-440C (chrome) \$29.99

NMO-440B (black) \$35.99

Freq: 440-460 MHz
Gain: 4.5dBd
Power: 200 Watts
Type: 5/8 over 1/2 Wave
Base: NMOUHFBASEB
Height: 33"
Whip: W154

Base Station Antennas

Radiall/Larsen manufactures a variety of small base station for directional and omni-directional applications. Each base station antenna is designed with premium materials to withstand the most demanding weather conditions. All base station antennas come with mounting hardware to attach to a pole up to 2" in diameter.



BSA-K \$50.99

Freq: 144-512 MHz
VSWR: 1.5:1 or less
Power: 200 Watts
Conn: UHF Female
Whip: 51-3/4"

Complete base station kit for designing a base station unit from 144-512 MHz. Comes with mounting hardware (antenna is extra). Works with NMO and UHF mount antennas.

Mounts

Larsen has a full line of permanent and temporary mounts to solve nearly every installation problem. Each mount is manufactured of the highest quality materials, including premium coax.

NMO-K \$15.99

Motorola style
roof mount

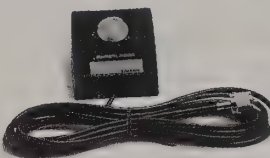
Size: 3/4"
Coax: 17' RG-58A/U
Conn: PL-259



NMO-MM \$31.99

Motorola style
magnetic mount

Size: 3-1/2" x 3"
Rectangle
Coax: 12' RG-58A/U
Conn: 58FCP
Pull Strength: 90 lbs.



NMO-TLP \$29.99

Motorola style trunk
lip bracket, black

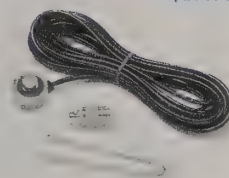
Size: 1-3/4" x
1-3/4"
Coax: 17' RG-
58A/U
Conn: PL-259



PO-K \$27.99

SO-239 female type roof
mount

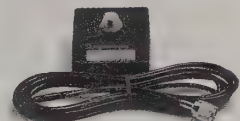
Size: 3/4" hole
Coax: 17' RG-58A/U
Conn: PL-259



PO-MM \$35.99

SO-239 female type magnetic mount

Size: 3-1/2" x 3"
Rectangle
Coax: 17' RG-58A/U
Conn: 58FCP
Pull Strength: 90 lbs.



TMB-34 (chrome) \$5.99

TMB-34B (black) \$7.99

Trunk mounting bracket
for NMO antenna.



Size: 1-5/8" x 1-5/8"
Mount: NMO

Parts and Accessories

W-490 \$9.99

Chrome .100 tapered replacement whip
for 144 MHz. (49")

W-490B \$12.99

Black .100 tapered replacement whip
for 144 MHz. (49")

W-2/70B \$24.99

Black .100 dia. replacement whip
for NMO 2/70B (approx. 31")

RADIALL/LARSEN

antenna technologies

Radiall/Larsen Antenna Technologies

3611 NE 112th Avenue
Vancouver, WA 98682
360 944-7551, Fax: 360 944-7556
Email: info@radialllarsen.com
Web: www.radialllarsen.com

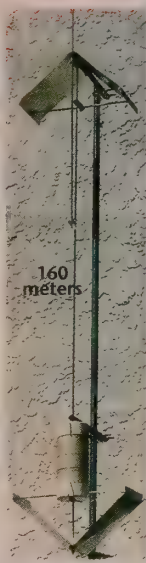
ISOTRON BILAL COMPANY

Antennas for Very Limited Space
Simple & Effective...

2002 - Our 22nd Year!



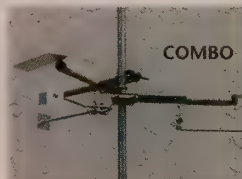
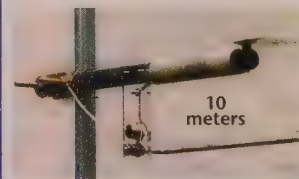
- Solve restricted space problems.
- Easy, quick, and simple installation.
- Handles up to 1,000 watts PEP.
- Excellent portable operation - emergencies, RV's, field day, motels, Maritime operation.
- Not dependent on a grounding system for performance.
- Unobtrusive appearance, making a very discreet looking installation.
- Very Stealth.
- Excellent Low Noise reception and transmitting quality performance is not compromised by its compact design.
- Tunes and performs without radials.
- Multi-band operation on one feedline with back to back mounting. Any other combination of three bands may be substituted on special order.
- Durable construction, can be used in extreme weather conditions, will not bend in high winds. No motors or mechanical tuning devices to fail.



Common Specifications: 1000W PEP power rating (300W, CW, AM, FM, RTTY) • 50-75Ω coax feed • Omni-directional radiation pattern • Bandwidth shown is within 2:1 SWR but may vary with environment • Stainless steel fasteners • Zinc plated u-bolts • Tempered aluminum components • Cast acrylic and PVC insulators • THHN #14 solid copper coils • 85 mph wind rating

Individual Specifications:

Model	160C	80	40	20	15	10	6
Band	160 meters	80 meters	40 meters	20 meters	15 meters	10 meters	6 meters
Freq. (MHz)	1.8-2.0	3.5-4.0	7.0-7.3	14-14.35	21-21.450	28-30	50-54
hwxwd (in.)	114 x16x15	32x16x15	22x16x15	21x8x4	21x1½x4	16x1½x4	16½x2x4
BW	100kHz	110kHz	250kHz	350kHz	450kHz	1MHz	1.25MHz
Windload (sq. ft.)	1.697	1.37	1.0	0.23	0.23	0.16	0.13
Weight	7 lbs.	6 lbs.	4 lbs	2 lbs	2.0 lbs	1.5 lbs	1.5 lbs.
PRICE	\$173.99	\$98.99	\$88.99	\$78.99	\$78.99	\$78.99	\$78.99



Multiband Models (top & right)

80/40 COMBO Same as individual model specifications above. Operate 80/40 meters with one feed line 32"x16"x30", 2.37 sq. ft. 10 lbs..... **\$169.99**

20/15/10 COMB Covers same as individual model specifications above. Operates 20/15/10 meters with just one feed line..... **\$198.99**

SPECIAL ORDER! - You can make up your own combination. Substitute 30m for 40m in the 80/40 Combo or 17m for 15m in the 20/15/10 Combo. MARS, CAP and Commercial models available.

PAR

OMNIANGLE ANTENNAS

10, 6 and 2m, 220 and 440MHz (fixed/mobile). A perfect complement to high-gain directional arrays, allowing all-direction local work and monitoring. Outperform halos, loops and turnstiles! Considerably longer than halfwave dipoles. Coupled with a unique shape, yield a horizontally-polarized antenna - whose pattern is within 0.8dB of being a circle and exhibits wide bandwidth.



Rated at 150W, their built-in matchbox and current balun allow feeding with 52Ω coax and easy tuning to desired frequency. Virtually eliminates detuning due to moisture. Stackable for 3-6dB omni-directional gain and lower angle of radiation.

- OA-28** 10m, 28-30MHz **\$74.99**
- OA-50** 6m, 49.5-54MHz **63.99**
- OA-144** 2m, 138-150MHz **54.99**
- OA-222** 222-224MHz..... **54.99**
- OA-432** 420-450MHz..... **54.99**
- Stacking Harnesses for Two Belden 8213 and silver/gold/teflon connects, 70cm uses N-connectors.
- SK-50** for OA-50 **\$36.99**
- SK-144** for OA-144 **34.99**
- SK-222** for OA-222 **Closeout 19.99**
- SK-432** for OA-432, type-N **54.99**

Van Gorden Engineering



DIPOLE ANTENNAS

Complete with Hi-Q 1:1 balun, #14 stranded copper antenna wire, plastic insulators, and 100 ft. of nylon rope. Rated for full legal power. May be used in an inverted-V configuration.

- D-80** 80m, 130' **\$32.99**
- D-40** 40m, 66' **29.99**
- D-20** 20m, 33' **28.99**
- D-15** 15m, 22' **27.99**
- D-10** 10m, 16' **26.99**

Shortened Dipoles Construction is the same, and includes traps as shown above.

- SD-80** 80m, 90' **\$36.99**
- SD-40** 40m, 45' **34.99**

ALL BANDER All Bander Dipole Covers 160 to 10M using an antenna tuner with balanced output. Full 135 ft. long (or less, as an inverted V or sloper). Trim to fit small lots. Assembled, with #14 gauge copper wire, center and end insulators and 100 ft. of 450Ω balanced line. 2KW PEP..... **\$29.99**

SHORTY All Bander As above, but with loading coils to shorten the length to 70' overall... **\$44.99**



MULTIBAND ANTENNAS

G5RV Covers 3.5-30MHz, plus 1.8MHz as a Marconi-type antenna with a tuner. Consists of a 102 ft. flat top with a 31' long section of 300Ω (450Ω for models below) KW twinlead, a transformer/coupler and 70 ft. of RG-8X coax and connector. 2KW PEP, assembled..... **\$50.99**

- G5RV JR** 7-30MHz, 52', 17' twinlead **24.99**
- G5RV-E** 3.5-30MHz, 102', 31' twinlead **28.99**
- G5RV-M** 1.8-30MHz, 204', 65' twinlead **50.99**

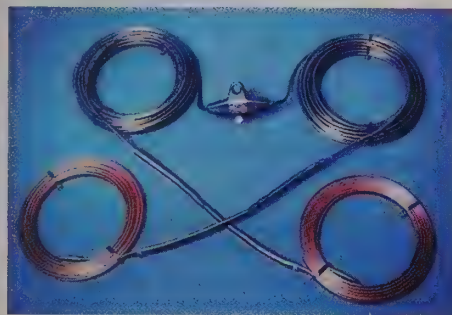
DIAMOND ANTENNA

D-130J Super Discone Copied by many, equaled by none. Professional quality. Ultra-wide-band omnidirectional - receives amateur, air traffic control, police, fire and other utilities from 25-1300MHz. Can transmit 80-1300MHz (50MHz with adjustment). Rustfree stainless steel employed in major component parts. Ideal antenna for scanners and receivers including Icom R100/7000/8500 and AOR AR5000/8200. Use standard RG213 or RG8X coax. Mast mounting U-bolts included. 67" h, 2.2 lbs..... **\$89.99**





www.iacantennas.com



Double Bazooka Half Wave Antennas are constructed with a flat-top of 50Ω coax and a section of 300Ω transmission line at each end. The shield is split in the middle, but the center conductor and insulation are left intact. The feedline connects to the split shield which becomes the radiating element. This results in quiet, broadband operation with 98% efficiency and a 50Ω balanced feedpoint without a balun. Mount horizontally or as an inverted V. Handles legal RF power limit. Has weatherproof center insulator, feeds directly with 50Ω coax with PL-259 connector. The 80m version will operate efficiently on 80-10m with antenna tuner.

160M Bazooka 1.8MHz (160M), 248'... **\$214.99**
80M Bazooka 3.5MHz (75-80M), 121'... **\$150.99**
40M Bazooka 7MHz (40M), 64'... **\$126.99**
20M Bazooka 14MHz (20M), 32'... **Special Order**

Half Sloper Antennas An extremely broad-banded antenna that can operate efficiently across an entire Ham band with less than a 2:1 VSWR. It's a quarter wave length long, constructed from 50Ω coax in combination with a 300Ω transmission line end section. (looks like half of the Double Bazooka pictured). Mounts from a tower or vertical metal support for optimum results. Feeds directly with 50Ω coax with PL-259. Ground return is accomplished through a metal support. Handles full legal power.

160M-S 160M, 127 ft. **\$140.99**
80M-S 75-80M, 67 ft., operates 80-10m with antenna tuner **\$115.99**
40M-S 40M, 33 ft. **Closeout \$69.99**

hy-gain

NEW

HF Vertical Antenna Effective counterpoise replaces radials and ground system • Automatic bandswitching with a single coax cable feed. Each band is individually tunable. Extra wide VSWR bandwidth. End fed with broadband matching unit. DC grounded. • Low angle of radiation - 17° for exciting DX. • 2.5 sq. ft. wind surface area • Small area required for mounting easily on roofs, decks and patios. • Handles full legal limit 1500W key down for two minutes • Aircraft quality aluminum tubing, stainless steel hardware; 80 mph wind survival.

AV-620 20-6M 6-Band No traps, coils or radials. 22.5' tall, 10.5 lbs. **\$269.99**

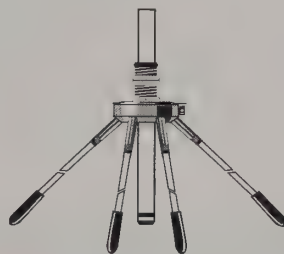
AV-640 40-6M 8-Band Uses 1/4-wave stubs on 6 thru 17M and end loading and capacity hats on 15 thru 40M. 25.5' tall, 17.5 lbs. **\$359.99**



A-99 10M Base Antenna with Twin Ring Adjust-A-Match Tuning Voltage-fed, half wave variable, mutual transfer inductance tuned antenna. It's economical and easy to use! The SOLARCON sealed base unit is tuned with external inductance rings. Impedance remains constant over the tuning range. Simple Tuning! Raising the tuning rings raises the frequency and lowering the rings lowers the resonant frequency.

Rugged, three-piece, white fiberglass construction with triple-plated brass fittings. It's easy to assemble and install. The optional GPK-1 ground plane radial kit makes it perform even better!

Three sections • 10 meters • 3 dBi gain • 2000W power limit • Radiation angle of <20° • DC ground mounting • 1.5" mast • 52Ω coaxial cable • SO-239 connector • 17 ft. 8 in. length **\$64.99**



GPK-1 Groundplane Kit 30% more power gain and lower angle of radiation • Includes collar and 4 fiberglass radials **\$39.99**



SKYHAWK 3X10 Triband Yagi A design breakthrough. 3-band, 10-element, 20/15/10M, rust free **Drop Ship \$999.99**

HF-2V 80/40 Vertical 32' **\$249.99**

HF-6VX 6-Band Vertical 26' **\$329.99**

HF-9VX 9-Band Vertical 26' **\$389.99**

www.bencher.com



HF/VHF/UHF MOBILE ANTENNA

For radios that operate HF/6M/2M/70cm

UHV-6 Designed for 6 and 2M and 70cm basic operation without tuning. Additional coverage for 40, 15 and 10 meters may be added by installing the supplied coils for those bands. Coils for 20, 17, and 80M are optional. Choose either one, two, or three coils and add one to the top, and one or two to the side, in any combination. Automatic bandswitching. Each HF element tunes independently without effecting VHF/UHF.

Only 7"2" tall with the 40M coil attached to the top. A unique fold-over hinge pivots approximately 5 inches from the bottom for garaging, entering parking structures, etc.

Installs on any standard SO-239 (PO) type mount; no special brackets are needed. Several duplexers/ triplexers are available for all multiband radios. - see the index under duplexers for selection. **\$149.99**

L-3.5 80M coil **\$34.99**

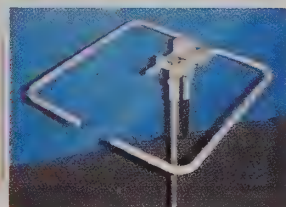
L-14 20M coil **\$29.99**

L-18 17M coil **\$29.99**

CF-530 1.3-90/125-470MHz dplx. **\$69.99**

CF-706A 1.3-56/75-470MHz duplr **\$69.99**

CA-52HB4 Wide Band 6M Beam HB9CV, 4-element • 50MHz band frequency • 50Ω impedance • <1.5:1 (50-54 MHz) VSWR • 10.4dBi • Half power angle <54° • Over 19dB F/B ratio • 400W maximum power, SSB • Boom length, 10.5 ft. • 7.3 ft. turning radius • SO-239 connector • 1.0 to 2.5 in. mast diameter • 4 lbs, 14 oz. **\$119.99**



HO Loops At times, when using highly directional VHF or UHF antennas, there are signals you cannot hear off the sides and back. The addition of an HO-Loop to your set-up will enable you to be aware of those stations you may be missing. Great for round tables, nets and monitoring for band openings.

HO-Loops are horizontally polarized and omnidirectional, ideal for mobile or base operation with contacts up to 200 miles not uncommon. Typical gain is 4.0+ dBd, and power rated at 800W or 1.5kW stacked. They're easily adjustable and have a wide bandwidth that ensures high performance regardless of the weather.

6M-HO-LOOP 50-50.3MHz, 29.5" sq. **\$103.99**

2M-HO-LOOP 144-144.5MHz 11.25" sq. **\$47.99**

222-HO-LOOP 220-224MHz, 7.75" sq. **\$47.99**

432-HO-LOOP 430-436MHz, 4.4" sq. **\$47.99**

Shakespeare®

VHF MARINE ANTENNAS

4187 Ratchet Mount (above) Stainless steel. 4-way ratchet design with handle for deck or bulkhead mounting. Standard 1"-14 male threads..... **\$36.99**

396-1 Center-fed 1/2 Wave Coaxial Sleeve Antenna Basic 3dB antenna designed to reduce signal fading when working in rough seas. Widely used by the Coast Guard. 5MHz bandwidth, 3dB gain, 50W • White Shakespeare fiberglass • Brass and copper elements • Deluxe chrome-plated brass ferrule • One section • 5 ft. length, 15' RG-58 cable with PL-259. Use 4187 ratchet mount..... **\$59.99**

420 Skipper™ Center-fed 1/2 Wave Coaxial Sleeve Antenna Economical, and a good basic 3dB antenna for steady, day-to-day cruising in calm to moderate seas. Includes a polycarbonate lift/lay deck mount, leveling plate and hardware. 5MHz bandwidth, 3dB gain, 50W • White Shakespeare fiberglass • Brass and copper elements • Polycarbonate ferrule • One section • 5 ft. length, 15' RG-58 cable with PL-259..... **\$59.99**

5101 Centennial™ End-fed Antenna with Matching Stub High-end features in an 8' antenna with a brass element and a smooth, high gloss, polyurethane finish that won't turn yellow in the sun. 5MHz bandwidth, 6dB gain, 50W • One section • Brass and copper elements • Chrome-plated brass ferrule with standard 1" x 14 thread • 8 ft. length • Includes 15 ft. RG-58 cable and a PL-259 coaxial connector. Use with 4187 ratchet mount..... **\$49.99**

5206-C End-fed Antenna with Matching Stub Economical, lightweight and self-supporting antenna for good communications where range is not the predominant factor. 3MHz bandwidth, 6dB gain, 50W • White Shakespeare fiberglass • Chrome-plated brass ferrule • One section • DC grounded • 8' length, 15' RG-58 cable with PL-259. Use with 4187 ratchet mount..... **\$39.99**

5202 Collinear-phased 5/8 Wave Elements A rugged, professional quality antenna featuring a heavier duty radome and tough brass and copper construction for maximum efficiency and extra range. 3MHz bandwidth, 6dB gain, 50W • White Shakespeare fiberglass • Chrome-plated brass ferrule • One section • DC grounded • 8' length, 20' RG-58 cable with PL-259. Use with 4187 ratchet mount..... **\$69.99**



NEW WAVE Antenna



PORTABLE COLLAPSIBLE MASTS

For Portable or Temporary antenna installations 7-section, telescoping masts manufactured from 6061-T6 polished aircraft aluminum with a 2" to 1.25" taper. Light-weight, easily raised by one person at ground level in seconds. Each section joint has a 4" overlap and snaps into place. Rotates at any section along its length, or securely locks into place. Snap-on antenna and park-on steel mount options.

ADVENTURER 47" to 12 ft, 4.5 lbs..... **\$109.99**

TRAVELER 59" to 19 ft, 6.5 lbs..... **\$124.99**

ROVER 71" to 26 ft, 8.5 lbs..... **\$149.99**

EXPEDITIONER 83" to 33 ft, 10.5 lbs **\$174.99**

EXPLORER 95" to 40 ft, 12.5 lbs..... **\$199.99**

BIG FOOT Park-on steel mt. 8.5 lbs..... **\$119.99**

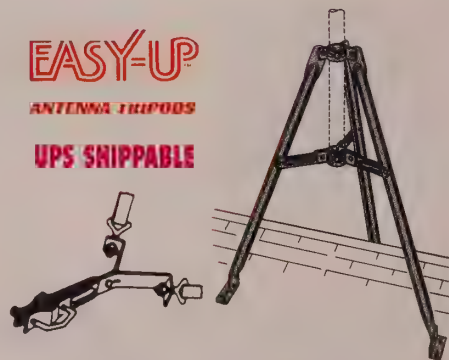
SNAP ON MOUNT Antenna Mount Attach antenna to portable without tools. Adds 12" .. **\$19.99**



EASY-UP

ANTENNA TRIPODS

UPS SHIPPABLE



The use of a self-supporting antenna mount makes a neat and attractive installation without guy wires. EZ-Ups are Heavy-Duty and Self-supporting - made out of 1 1/4" tubular steel with triple corrosion protection inside and out. Double embossed collars with six locking screws hold masts up to 1 3/4". Fast, one-man installation, the legs extend to any rafter spacing. Shipped completely assembled and includes a pitch pad kit and lag screws.

EZ 48-3ABX (right) 3 ft. high, 8.5 lbs..... **\$24.99**

EZ 48-5ABX (right) 5 ft. high, 12 lbs..... **\$34.99**

EZ 5-16 5' 16 ga. steel mast (Pick-up only) **\$7.99**

EZ 29-24S Heavy-duty Double-strap Chimney Mount (left) Mount includes two "Y" type mounts and 24' of stainless steel strap..... **\$17.99**

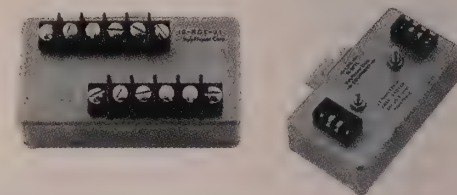
PolyPhaser® CORPORATION

GROUNDING PANEL

CU-SPGP A .062" thick copper plate mounted on a melamine covered board. For mounting protectors and establishing a single grounding point for all station equipment. Comes with concrete anchors, mounting screws, two rolls of 10' x 1.5" copper grounding strap and 2 copper sandwich bars. 18"W x 12"H, 16" on-center mount .. **\$69.99**

LOW INDUCTANCE COPPER STRAP

An advantage over wire for grounding. Lower inductance and cannot be fused open by lightning. Usable above or in-ground, #26 AWG thickness. Available in 1.5, 3 or 6 inches wide and 25, 50, 75 or 100 ft. rolls..... **See Price Guide**



ROTOR CONTROL PROTECTOR

IS-RCT (left) 8-wire protection for rotor and other nearby equip. Water tight w/mount. stud. **\$54.99**

IN-LINE PHONE LINE PROTECTOR

IS-SPTL (right) Multi-stage protection for telephone trunk lines. Handles ring voltages up to 105V, surges up to 36kA **\$57.99**

POWER LINE EXTENSION PROTECTOR

In-line, multi-stage protectors provide multi-strike line protection, filtering and proper grounding. 2 outlets, master on/off switch, and circuit breaker. All aluminum grounded enclosure, 4.75" wide.

IS-PLDO-120-15A 15', 120V/15A **\$172.99**

IS-PLDO-120-20A 6' cord, 120V/20A. **\$215.99**

BROADBAND COAXIAL PROTECTORS

Low loss • Multi-strike capability with low strike throughput energy • Aluminum enclosure • VSWR: ≤1.1 over freq. range • Bulkhead or flange mount

Flange Mount

IS-50UX-CO 1.5-400MHz. Power: HF 2KW; VHF 375W; UHF 125W **\$61.99**

IS-50UX-C1 50-700MHz. Power: VHF 375W; UHF 125W **\$61.99**

IS-50NX-C2 125-1000MHz. VHF 375W; UHF (low) 125W; 800MHz-1GHz 50W. Type-N **\$61.99**

Bulkhead Mount

IS-B50LU-CO 1.5-400MHz. Power: HF 2000W; VHF 375W; UHF 125W..... **\$64.99**

IS-B50LU-C1 50-700MHz. Power: VHF 375W; UHF 125W **\$64.99**

IS-B50LN-C2 125-1000MHz. VHF 375W; UHF (low) 125W; 800MHz-1GHz 50W. Type-N **\$64.99**

IS-IE50LN-C1 Deluxe 50-700MHz. Power: VHF 375W; UHF 125W. Type-N..... **\$117.99**

IS-IE50LU-CO Deluxe 1.5-400MHz. Power: HF 2KW; VHF 375W; UHF 125W **\$129.99**

Used & Demo
Equipment lists

Updated regularly on the web.
Check them out and order **On-line**



BARKER & WILLIAMSON ANTENNAS and ACCESSORIES

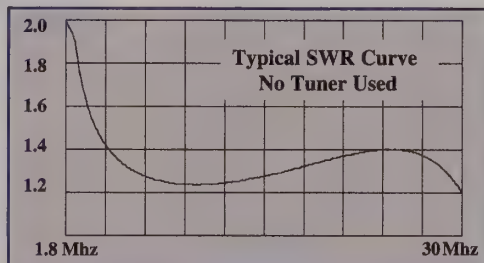
The Highest Quality and Most Experience in the Antenna Business

Cover the entire HF band with one antenna - *The Way the Pro's Do*

True continuous freq coverage from 1.8-30 Mhz

These antennas are so unique that they were even patented! They can offer fully automatic, low SWR operation over the entire HF band *without need for an antenna tuner*. They are frequency agile, which is a necessity to operate ALE capable radios. They will propagate NVIS, local, medium or long distance. Try that with a vertical! Delivery of the quietest possible reception is integral to the design, with automatic static bleed off from wind or thunderstorms. Ready to go right out of the box, no taps to change, nothing to tune - *ever!* Designed for the military and built to last. By the way, after 70 years B&W products are *still* being made in the USA!

Tens of thousands of these antennas have been supplied to the US military, NATO, UN, Red Cross, and other similar agencies. They can be found on every continent in the world.



- ✓ Military, Government, Homeland Defense
- ✓ Ham, CAP, MARS, ARES, RACES, FEMA
- ✓ True continuous agile frequency coverage
- ✓ 1.8 - 30 Mhz in only 90 Feet
- ✓ SWR less than 2:1 from 1.8-30 Mhz
- ✓ No antenna tuner required
- ✓ Lowest noise for unmatched reception

- 2 KW PEP SSB/CW ICAS
- #14 stranded copperweld or stainless wire
- 50 Ohm input with SO-239
- Comes completely assembled, only 7 Lbs
- Easy installation as flat-top, inverted Vee, or sloper

AC-5-30 ----- 5.0 to 30 Mhz, 65 Ft, Copperweld wire

ACS-5-30 ----- 5.0 to 30 Mhz, 65 Ft, Stainless wire

BWD-1.8-30 ---- 1.8 to 30 Mhz, 90 Ft, Copperweld wire

BWDS-1.8-30 --- 1.8 to 30 Mhz, 90 Ft, Stainless wire

Trap Dipole Antenna Kits - 1 KW PEP

B&W has been making the highest performance trap dipoles for longer than anybody else. Features include super heavy duty traps, stainless hardware, #14 stranded copperweld, 50 ohm coaxial feed. Install as flat-top, inverted Vee, or sloper.

Length	Bands	Description	Model
137 Ft	160 80 40 20	Low SWR on all bands. Three sets of traps isolate a full half wave on each band for superior performance.	AS-160
110 Ft	80 40 20 15 10	Low SWR on 80 and 40 meter bands, resonant performance on 20, 15 and 10 meters. Utilizes one set of traps.	AT-110
96 Ft	160 30	2 KW PEP. This antenna has one set of loading coils to allow 160 meters in very limited space.	AXS-160
78 Ft	80 40 20	Two sets of traps give low SWR on all bands. Excellent 80 meter coverage.	AS-80
65 Ft	80 40 15	A combination of one set of loading coils and one set of traps allows 80 meters in very limited space.	AXS-80
55 Ft	40 20 15 10	Four bands in only 55 Ft. One set of traps gives efficient operation.	AT-55
40 Ft	40 20 15 10	Utilizing three sets of traps, this antenna has low SWR on all bands.	AS-40
20 Ft	20 15 10	For very tight spots, two sets of traps yield low SWR on all three bands.	AS-20

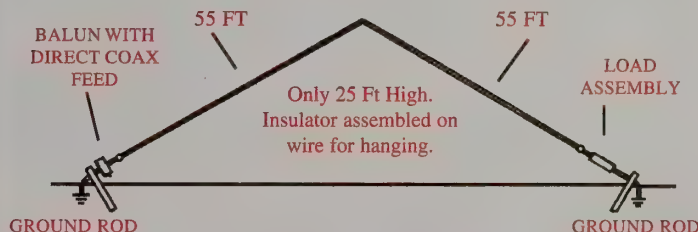
Trust the Experts at B & W

Using B&W products means that you have over 70 years of experience backing you up. Our quality and workmanship are known around the world. We have been making communications products since 1932. All products proudly made in the USA.

www.buanteanas.com

Broadband End-Fed Vee 1.8-30 Mhz

All of the same unique broadband characteristics of our folded dipole antennas, except in a grounded configuration. Use this antenna on metal roof tops and over wet ground. Make a stealthy installation with the center at just 25 feet, and the ends right down to the ground.



AC-1.8-30 ----- Copperweld Wire

ACS-1.8-30 ----- Stainless Steel Wire

DEED RESTRICTED? NO PROBLEM! WINDOW / BALCONY MOUNT / PORTABLE




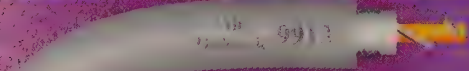








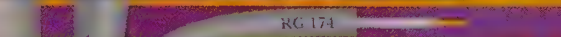

2 - 40 METERS • 300 WATTS



AP-10A We designed this antenna 40 years ago, and its still a great performer! Tune to *any frequency continuous* from 40-10M, and also work 2 and 6M. Easily mounts solidly to a window, table, balcony, etc., with a super strong 3/16" aluminum bracket with built in C clamp. Base loaded unit includes telescopic whip, mounting bracket, high Q airwound coil assembly with flylead, insulated counterpoise wire, coax cable with PL-259. Tune by adjusting flylead and counterpoise length. The whip collapses to 23" for easy transport. Its small, but can deliver exciting DX performance.

Low cost, low loss flexible LMR® cable!

for HF through Satellite Bands

	Diameter in Inches	Jacket Material	Shielding (dB)	*Attenuation (dB/100')			
				30 MHz	146 MHz	440 MHz	2.4 GHz
 LMR® 900	.870	Black PE	90	.29	.65	1.2	2.9
 LMR® 600	.590	Black PE	90	.42	.95	1.7	4.3
 LMR® 400	.405	Black PE	90	0.7	1.5	2.7	6.6
 RG-9913	.405	PVC	90	0.8	1.5	2.8	7.5
 RG-9914	.403	PVC	90	1.0	2.1	3.8	8.7
 RG-213	.425	PVC-IIA	60	1.2	2.8	5.1	13.7
 RG-213	.405	PVC-IIA	40	1.2	2.8	5.1	13.7
 LMR® 240	.240	Black PE	90	1.3	3.0	5.2	12.7
 RG-242	.242	PVC	40	2.0	4.5	8.1	21.6
 LMR® 200	.195	Black PE	90	1.8	3.9	6.9	16.5
 LMR® 195	.195	Black PE	90	2.0	4.4	7.7	18.6
 RG-58	.195	PVC-IIA	40	2.5	6.1	10.4	35.0
 LMR® 100A	.105	Black PVC	90	3.9	8.8	15.6	38.9
 RG-174	.110	PVC-IIA	40	5.5	13.0	25.0	75.0

LMR features: Watertight foam polyethylene dielectric • Non-kinking • EZ install connectors

*Use calculator at www.timesmicrowave.com for loss at any frequency

AES® Stocks LMR-400 Series Only.



TIMES

MICROWAVE SYSTEMS
A Smiths Industries company





TV-2900 Weatherproof Transformer 82 channel, matching transformer for indoor or outdoor use. Adapts 75Ω coaxial cable with F-connector to terminals of a 300Ω TV antenna, TV set or coupler. Includes F-connector and boot. **\$2.99**

RG-6 75Ω TV Coaxial Cable with cellular poly dielectric, #20 copperweld center conductor, 100% aluminum foil shield and 40% aluminum braid shield provides low-loss, good conductivity, flexibility and tensile strength. Weather-proof F-connectors installed.



CX-0625 25 ft. length **\$10.99**
CX-0650 50 ft. length **15.99**
CX-0675 75 ft. length **19.99**
CX-6100 100 ft. length **24.99**

CASTLE RIDGE PRODUCTS, INC.



COPPERWELD® Antenna Wire Forge-welding makes the two metals inseparable! Solid bare copper-over-steel wire – the best for antennas. Very strong, the steel core has very little stretch and long service life. The copper covering provides low RF resistance and solders easily. 12, 14 or 18 gauge.

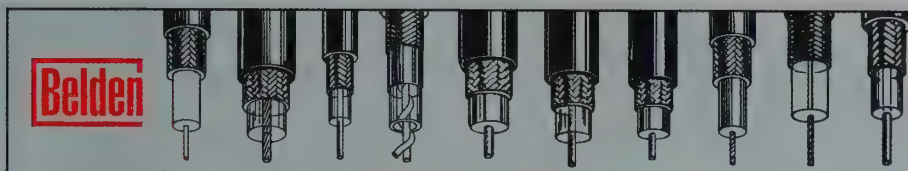
AN-122 100 ft. #12 **\$26.99**
AN-123 150 ft. #12 **36.99**
AN-124 250 ft. #12 **52.99**
AN-126 500 ft. #12 **94.99**
AN-128 1000 ft. #12 **159.99**
AN-142 100 ft. #14 **21.99**
AN-143 150 ft. #14 **26.99**
AN-144 250 ft. #14 **36.99**
AN-146 500 ft. #14 **64.99**
AN-148 1000 ft. #14 **109.99**
AN-181 250 ft. #18 **15.99**
AN-182 500 ft. #18 **26.99**

Connecting you to the World

CABLE XPERTS INC.

FLAT GROUNDING BRAID

Flat, flexible, and tinned for easy soldering. 1" size primarily used for grounding tower legs to ground rods or central point in a shack. From the central point, use 1/2" size to all equipment separately for best protection.
2332 1/2", 10 gauge, rated at 53 amps per ft. **59¢**
2332 100 100 foot roll of above **\$52.99**
235 1", 7 gauge, rated at 85 amps per ft. **99¢**
235 100 100 foot roll of above **\$92.99**



COAXIAL CABLE

See Belden in the Price Guide

Model	Type	Dia. (in.)	Center conductor	Insulation type	Shield coverage	Jacket type	Imp. (Ω)	Vel. factor	Loss/100' 100 MHz
8216	RG-174 Sub-miniature	.11	26 AWG bare copper coat steel	Solid polyethylene	90% tinned copper braid	Black PVC	50Ω	66%	8.4 dB
8219	RG-58A/U	.195	20 AWG stranded bare copper	Foam polyethylene	96% tinned copper braid	Black PVC	53.5Ω	73%	4.5 dB
8240	RG-58/U	.195	20 AWG solid bare copper	Solid polyethylene	95% tinned copper braid	Black PVC	51.5Ω	66%	3.8 dB
8259	RG-58A/U	.193	20 AWG stranded tinned copper	Solid polyethylene	95% tinned copper braid	Black PVC	50Ω	66%	5.4 dB
8262	RG-58C/U non-contaminating	.195	20 AWG stranded tinned copper	Solid polyethylene	95% tinned copper braid	Black non-contaminating PVC	50Ω	66%	5.4 dB
9201	RG-58/U	.193	20 AWG solid bare copper	Solid polyethylene	78% bare copper braid	Black PVC	52Ω	66%	4.2 dB
9258	RG-8X Mini-8	.242	16 AWG stranded bare copper	Foam polyethylene	95% bare copper braid	Black PVC	50	82%	3.1 dB
8214	RG-8/U	.403	11 AWG stranded bare copper	Foam polyethylene	97% bare copper braid	Black PVC	50Ω	78%	1.7 dB
8237	RG-8/U	.405	13 AWG stranded bare copper	Solid polyethylene	97% bare copper braid	Black PVC	52Ω	66%	1.9 dB
8267	RG-213/U non-contaminating	.405	13 AWG stranded bare copper	Solid polyethylene	97% bare copper braid	Black non-contaminating PVC	50Ω	66%	2.1 dB
9913	Low loss semi-flexible RG-8/U	.405	10 AWG solid bare copper	Semi-solid polyethylene	100% bonded foil plus 90% tinned copper braid	Black PVC	50Ω	84%	1.3 dB
9913F7	Low loss flexible RG-8/U	.405	10 AWG stranded bare copper	Gas-injected foam polyethylene	100% bonded foil plus 90% tinned copper braid	Black Belflex®	50Ω	84	1.5 dB
9251	RG-8A/U non-contaminating	.405	13 AWG stranded bare copper	Solid polyethylene	97% bare copper braid	Black non-contaminating PVC	52Ω	66%	1.9dB
8241	RG-59/U	.242	23 AWG solid bare copper	Solid polyethylene	95% bare copper braid	Black polyethylene	75Ω	66%	3.4 dB
8213	RG-11/U	.405	AWG 14 solid bare copper	Gas-injected foam polyethylene	97% bare copper braid	Black polyethylene	75Ω	84%	1.3 dB
8238	RG-11/U	.405	18 AWG stranded tinned copper.	Semi-foam polyethylene	97% bare copper braid	Black PVC	75Ω	66%	2.0 dB

ROTOR CABLE

8448 Standard duty, 8 wire. Up to 100' runs. Six #22 and two #18 AWG tinned copper conductors. PVC insulation and PVC jacket.

9405 Heavy duty, 8 wire. Over 100' runs. Six #18 and twelve #16 AWG tinned copper conductors. PVC insulation and PVC jacket.

8484 Standard duty, 4 wire. Four #20 AWG tinned copper conductors. PVC insulation and PVC jacket.

See Belden in the Price Guide

PREASSEMBLED COAXIAL HOOK-UP CABLES (INSTALLED)

9349 3' RG-58A/U low-loss foam, PL-259s **\$16.99**
9352 50' RG-58A/U low-loss foam, PL-259s **28.99**
9354 50' RG-8/U low-loss foam, PL-259s **52.99**
9355 75' RG-8/U low-loss foam, PL-259s **74.99**
9356 100' RG-8/U low-loss foam, PL-259s **89.99**

ANTENNA & GROUND WIRE

8000 #14 AWG (7x22) stranded bare copper-covered steel antenna wire.
8018 #8 AWG (solid) soft annealed aluminum ground wire – multiples of 50 ft.

MFJ

MFJ ENTERPRISES, INC.

341S (SO-239)/341M (NMO) Permanent Mobile Hard Mounts

Top quality antenna mounts with 14' of RG-58A/U coaxial cable & PL-259 connector attached. Easily snakes around a vehicle to the best operating position. Perfect for MFJ RuffRider™ or other brands of mobile VHF/UHF antennas **\$19.99**



synthetic

textiles, Inc.

Black Dacron® Polyester Antenna Rope Constructed of strong, double braid Dacron® Black for UV protection. Resistant to mildew & abrasion. Ties and cuts easily, sealing effectively with a hot knife.

100' 100 ft., 3/32" **\$6.99**
100' 3/16 100 ft., 3/16" **14.99**
100' 5/16 100 ft., 5/16" **19.99**
350' 350 ft., 3/16" **39.99**



Ready-Made Coaxial Cable Assemblies

RG8/U-Foam PE
 .9db @ 30MHz
 95% braid coverage
 Light weight
 Ultra-violet resistant
 jacket
 With PL259 each end

CXP1318FX
 2.8db @ 450MHz
 Low loss
 Double-shielded
 Non-contaminating &
 direct burial jacket
 With PL259 each end
 or "N" male ea. end

RG8X/Mini Foam
 2.0db @ 30MHz
 95% braid coverage
 Low power
 Small diameter
 Ultra-violet resistant
 jacket
 With PL259 each end

RG213/U Mil-Spec
 1.2db @ 30MHz
 High power capabilities
 Non-contaminating &
 direct burial jacket
 With PL259 each end

All Soldered Construction - Silver, Teflon®, Gold Tip Connectors

For optimum performance from your communications equipment. These precision USA made and tested assemblies will provide years of great service. Guaranteed to perform to specifications. For excellent cabling results, you can depend on CABLE X-PERTS, INC.

jake



Made In USA



Connecting you to the World™

CABLE X-PERTS INC.
 www.cablexperts.com

See Price Guide for Cable X-perts pricing.



ROTARY COAX CABLE STRIPPERS

For quick, clean prep of coaxial cable without damage. Insert coax, turn clockwise 4 or 5 times.

24-7735P for RG-58, RG-59, RG-62 **\$21.99**
24-7736P for RG-6, RG-59, 8281 **21.99**
24-7739P for RG-8, RG-11, RG-213 **28.99**
HT-332 (right) for RG-6/58/59/62 .. **Closeout 9.99**



High Performance Baluns • State-of-the Art • 0.5 to 50MHz performance with advanced toroid transformer • 3KW SSB rated • Extended performance in hostile environments • Stainless steel hardware • Heavy-duty body materials • Military grade internal components • Dimensions: 3" dia. x 7"

B11W10-50 1:1, dipole **\$54.99**
B11Y10-50 1:1, yagi **54.99**
B41Y10-50 4:1, yagi **69.99**
B41LW10-50 4:1, ladderline to coax **69.99**

Van Gorden Engineering

BALUNS & INSULATORS

Hi-Q 1:1 or Hi-Q 4:1 Baluns

For dipoles, yagis, inverted vees and doublets. Provides 1:1 or 4:1 impedance ratio for matching unbalanced coaxial cable to balanced antennas. Covers 3-40MHz with a 1.5KW rating. Reduces feedline radiation for more power into antenna, and reduced TVI/BCI problems. Built-in DC ground reduces static noise and provides some lightning protection. Convenient SO-239 connector and center support eye hook. Weatherproof ea. **\$14.99**

ANTENNA CENTE Hi-Q

Antenna Center Insulator

Insulator only, no balun. Replaces egg-type center insulator. Small, rugged, lightweight, weatherproof, SO-239 connector, center supporting eye hook **\$6.99**

ANTENNA END IN End insulators . pair **\$4.99**

DOG BONE Antenna insulators each **99¢**



LADDER LINE

450 OHM 100 18 ga. 100' insulated **\$14.99**
450 OHM 14 100 14 ga. 100' insulated.. **29.99**
450 OHM 1,000 18 ga. 1000' insulated **109.99**
450 OHM 14 1000 14 ga. 1000' insul.. **229.99**

WHITE NYLON ROPE

NR-100 100' roll, antenna guy rope **\$4.99**
NR-1,000 1000' roll, antenna guy rope **44.99**

N CONNECTOR

N CONNECTOR Male connector for Belden 9913 and 8214 coax **\$4.99**

PREASSEMBLED COAXIAL HOOK-UPS

8X-1.5ST 1.5' RG-8X, silver-tef. PL-259s .. **\$7.99**
8X-3ST 3' RG-8X w/silver-teflon PL-259s **8.99**
8X-6ST 6' RG-8X w/silver-teflon PL-259s . **10.99**
8X-12ST 12' RG-8X, silver-teflon PL-259s **11.99**
8X-25ST 25' RG-8X, silver-teflon PL-259s **15.99**
8X-50ST 50' RG-8X, silver-teflon PL-259s **24.99**
8X-75ST 75' RG-8X, silver-teflon PL-259s **31.99**
8X-100ST 100' RG-8X, silver-tef. PL-259s **37.99**
213-25ST 25' RG-213, silver-tef. PL-259s. **25.99**
213-50ST 50' RG-213, silver-tef. PL-259s. **38.99**
213-75ST 75' RG-213, silver-tef. PL-259s. **54.99**
213-100ST 100' RG-213, sil.-tef. PL-259.. **72.99**



W2AU FERRITE BALUNS

These baluns replaces center insulator and provide a smooth transition from unbalanced coaxial transmission lines to balanced antennas; dipoles, quads and yagis. Produces proper current distribution resulting in reduced feedline radiation for maximum power transfer, gain and reduced TVI/BCI. DC grounded for lighting protection, center eye hook for support. Usable from 1.8-40MHz, 2KW PEP, SO-239 connector..

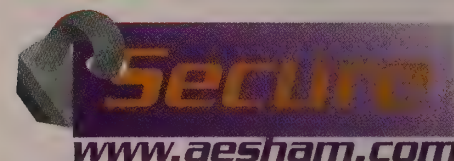


W2AU 1:1 1:1, 1.8-40MHz ferrite **\$24.99**
W2AU 4:1 1:1, 1.8-40MHz ferrite..... **24.99**
W2AU BEAM 1:1, Beam balun **24.99**

W2DU NON-TRANSFORMER CHOKE BALUNS

High efficiency, transformerless 1:1 baluns. The HF model is the only one available that works on 160 meters! They all handle a VSWR up to 5:1 at the legal power limit, allowing use with antenna tuners. The VHF model eliminates the usual rod and tube hardware balun assembly normally used at those frequencies.

W2DU-HF 1:1, 1.8-30MHz choke..... **\$26.99**
W2DU-VHF 1:1, 30-250MHz choke **26.99**
W2DU BEAM 1:1, 40-10m choke..... **26.99**



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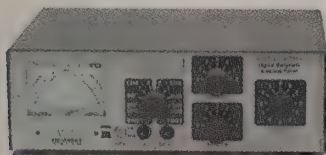


ANTENNA TUNERS

VC-300M Mobile Tuner Compact and light-weight for base or mobile use. Tunes verticals, dipoles, inverted Vs, beams and mobile whips fed by coaxial cable. Covers 1.8–30MHz at 300W continuous power. The dual-movement cross-needle meter simultaneously monitors RF power output and SWR. 7.25" w x 3.5" h x 8.75" d, 2.5 lbs **\$99.99**



VC-300DLP Antenna Tuner A quality, economical tuner. Covers 1.8–30MHz at 300W continuous power capability from 3.5–30MHz and 150W on 1.8 MHz. Built-in dummy load, dual-movement cross-needle peak or average reading meter. Compatible with most antennas – coax-fed, balanced or single wire. Built-in 4:1 balun and 6-position antenna switch. 10.25" w x 9.5" d x 3.5" h, 3.5 lbs.. **\$149.99**



VC-300D Antenna Tuner Same functions and specifications as the VC-300DLP above, but has the additional capability to show a peak power indication by using an instantaneous responding digital bargraph meter display. A level and delay control has been added to calibrate the display to the meter, and to vary the delay response..... **\$179.99**



HFT-1500 Antenna Tuner Rated for 1500W from 1.8–30MHz; 1000W (2KW PEP) on 160 and 10M. Features a cranked continuous roller inductor with a numerical turns counter and vernier tuning on the antenna and input capacitors. The dual-movement cross-needle meter shows average forward and reverse power and SWR while a 21-segment bargraph indicates the peak power. A true RF directional coupler sensor is used for the wattmeter circuitry. Includes a built-in 4:1 balun for balanced antenna systems and six-position antenna selector switch. 5.5" h x 12.5" w x 12" d, 10 lbs **\$399.99**



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MFJ MFJ ENTERPRISES, INC.



ANTENNA TUNERS

922 VHF/UHF Dual Band Antenna Tuner Great for HTs, mobiles or amps up to 150W. Using the included tool, adjust your antenna system for a low SWR on VHF, 136–175MHz and UHF, 420–460MHz. Meter reads both SWR and power in 60/150W ranges. 4" x 2" x 1.25" carry it in your car, while camping, etc..... **\$79.99**

945E Mobile Tuner Covers 1.8–30MHz, and rated at 300W PEP. Matches coaxial cable only. Extends mobile antenna bandwidth and eliminates having to stop and adjust the whip length when making frequency changes. Lighted cross-needle SWR bridge and power meter with 50/300 and 5/30W ranges. 8" w x 2" h x 6" d **\$99.99**

941E Versa Tuner II Covers 1.8–30MHz and rated at 300W PEP. *Matches everything!* – coaxial fed dipoles, vees, whips, verticals, beams, random wires and balanced lines, has a built-in 4:1 balun. Lighted cross-needle SWR/power meter with 300/50W and 30/5W ranges. Convenient 8-position antenna selector for 2 coax lines, random wire or balanced line or an external dummy load. 10.625" w x 2.875" h x 7" d **\$109.99**

934 Antenna Tuner/Artificial Ground Makes a random wire an effective antenna. Combines the best features of MFJ's 941E and 931 into one unit. A full-featured 1.8–30MHz, 300W antenna tuner with cross-needle meter and ground matching knob that lets you switch in inductance to bring an attached random length wire to a low impedance current point, forming an artificial ground. 10.625" w x 3.5" h x 7" d..... **\$169.99**

948 All the features of the 941E without the dummy load. Has large lighted peak reading cross-needle SWR/power meter..... **\$119.99**

949E Deluxe Versa Tuner II Same power, tuning and switching capability as the 941E with a larger, lighted peak or average reading cross-needle SWR/wattmeter. *PreTune™* allows off-air tune-up into a built-in 50Ω dummy load. 10.625" w x 2.875" h x 7" d. **\$139.99**

969 Deluxe Versa Tuner II Covers 6–160M and rated at 300W. Features a roller inductor coil with a spinner knob and 3-digit turns counter. Lighted peak/average reading cross-needle SWR/wattmeter with 30/300W ranges. Tunes coaxial cable, random wire or balanced feedline, has a built-in 4:1 balun. QRM-Free *PreTune™* allows off-air tune-up into a built-in 50Ω 300W dummy load. Convenient 8-position antenna selector switch. 10.5" w x 3.875" h x 9.5" d. **\$189.99**

962D Versa Tuner III Covers 1.8–30MHz and rated at 1.5KW PEP. Matches coaxial fed antennas, random or balanced line. Has a built-in 4:1 balun. Lighted peak/average cross-needle SWR/wattmeter with 200/2000W ranges. 6-position selector for 2 coax lines (direct or thru), random and balanced lines. 10.5" w x 3.875" h x 15" d..... **\$249.99**

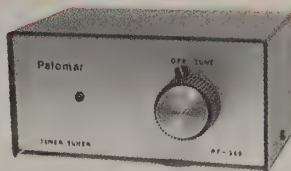
986 Differential-T Tuner™ Covers 1.8–30MHz, rated at 3KW PEP. Uses a broadband T-network with roller inductor and differential capacitor. Tunes most antennas using only two knobs. Lighted peak or average reading cross-needle SWR/wattmeter with 200/50W and 2000/500W ranges. Inductor spinner knob, 3-digit turns counter, 6-position antenna selector, external dummy load switch, 4:1 balun. 10.75" w x 4.5" h x 15" d..... **\$299.99**

or average reading cross-needle SWR/wattmeter with 200/50W and 2000/500W ranges. Inductor spinner knob, 3-digit turns counter, 6-position antenna selector, external dummy load switch, 4:1 balun. 10.75" w x 4.5" h x 15" d..... **\$299.99**

989C Versa Tuner V Covers 1.8–30MHz and rated at 3KW PEP. Super duty components. Matches nearly every type of antenna. Roller inductor with spinner knob and 3-digit turns counter. Lighted peak/average reading cross-needle SWR/wattmeter with 200/2000W ranges. Built-in 50Ω 300W dummy load, 3KW 4:1 balun and 6-position antenna selector switch. 10.75" w x 4.5" h x 15" d..... **\$319.99**

Palomar Engineers

PT-340 Tuner- Eliminate QRM, overheated final tubes and devices by adjusting the station antenna



tuner without transmitting. Installs permanently between rig and antenna tuner. Just turn it on, and listen to the noise output in your receiver, then adjust your station tuner controls for a dip in the noise (a null). Covers 1.7–30MHz. Uses 9V battery. 6" w x 5" h x 3" d..... **\$99.99**

WA1FFL



Ladder-Loc® Center Insulator & Support Provides a convenient means of attaching 450Ω ladderline to various dipole antennas. This sturdy support minimizes feedline flexing at the antenna feedpoint and ensures a long lasting, trouble-free installation. A top attachment point is provided for attaching a center support rope. UV stabilized for long life..... **\$12.99**



Z-11 QRP Auto Antenna Tuner Perfect for QRP units. Designed with regard to reducing size and power consumption. A high-efficiency, micro-processor-controlled, switched "L" network designed to work with dipoles, verticals, vees, beams or other coax-fed antennas. • 1.8–30MHz coverage • 0.1 to 30W continuous • Tunes 6 to 800Ω loads • Tuning time: 0.1–3 seconds (1.5 average) • Requires 11–15 VDC @ 10–190mA (75mA average) • 5" x 6.5" x 1.3", 15 oz. **\$169.99**



AT-11 Remote Mounting Automatic Tuner Easy to install in mobile, marine or tower applications. The tuner is housed in a water-resistant, high impact, ABS plastic enclosure. Latching relays retain the "L"-network settings even if power is removed. Optional remote head allows easy control from any location. Built-in interface for Alinco and Icom (cable required). For dipoles, verticals, beams or any other coax-fed antenna. Optional 4:1 balun for long wires and ladder line fed systems. • 1.8–54MHz coverage • 0.1 to 125W • Tunes 6 to 800Ω loads • Tuning time 0.1 to 3 seconds (1.5 average) • Requires 11–15V DC @ 10–200mA (75mA average) • 8.5" w x 5.5" h x 3" d, 2.5 lbs **\$199.99**



AT-11MP Automatic Antenna Tuner Micro-processor control merged with a proven switched "L"-network design. Automatically analyzes SWR and quickly adjusts discrete components to achieve, in most cases, an SWR of 1.5:1 or less. For dipoles, verticals, vees, beams and other coax-fed antennas. Optional external 4:1 balun for tuning of random length, long wire, and other systems. Dual cross-needle meter simultaneously shows forward/reflected power and SWR. Built-in interface for use with Alinco and Icom (cable required). • 1.8–30MHz coverage • Power range: 5 to 150W • Tunes 6 to 800Ω loads • Tuning time: 0.1–5 seconds (3.0 average) • Requires 11–15 VDC @ 15–500 mA (250mA average) • 9.5" x 8.25" x 2.5" **\$219.99**

**DC
SALES**

TENNA HITCH A heat treated, high strength aluminum bracket with insulated 3/8" x 24 mounting stud. Installs under the ball of any Class-I or II hitch. Handles the largest mobile antennas, and does not interfere with trailer towing capability. No holes to drill. All hardware is supplied **\$38.99**



AMERITRON



ATR-30 True Legal Limit™ Antenna Tuner Covers 1.8–30MHz, including all MARS and WARC bands. Designed for sustained RF output of over 1500W CW and 3000W SSB, also 160m. Uses High-Q, high-current, edge-wound arc-free roller inductor with super heavy-duty 500pf capacitor in T-match network. Matches nearly any type of antenna using either coax or balanced feedlines. Cross-needle, peak-reading SWR/wattmeter with 3000/300W ranges measures peak or average forward/reflected power plus VSWR, illum. Includes 3-core choke balun, 6-position antenna switch and 6:1 vernier reduction drives, turns counter. Optional external 12 VDC or internal 9V required **\$549.99**

ICOM

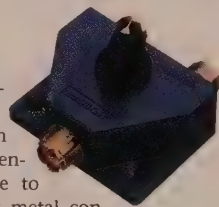
AH-2B Antenna Element Provides 7 through 50MHz mobile operation when used with the AH-4 antenna tuner. Includes hardware for mounting to a tow bar, 8.2 ft. antenna. **\$299.99**



AH-4 Automatic Antenna Tuner Fully automatic – covers all amateur bands from 3.5MHz–54MHz with a 23' or longer wire antenna, or 7–54MHz with optional AH-2B antenna element. Compact yet durable, it measures 6.7" w x 2.7" h x 9" d for easy installation in a variety of locations. Weather-resistant construction, using rubber gasket seals, enables operation in all conditions. Handles 120W PEP, requires only 5–15W for tuning. Designed for use with Icom HF transceivers. Just push the [TUNER] switch and the AH-4 auto adjusts to the minimum SWR in less than 2.5 seconds. Up to 45 memories store settings to provide 1-second retuning. Supplied with mounting kit, 16' control and coaxial cables, PL-259s. Requires 13.8 VDC..... **\$269.99**

DAIWA
industry co. ltd.

CS-201 2-Position Coaxial Switch A high quality coaxial switch with excellent high frequency RF characteristics due to cavity and heavy diecast metal construction. Frequency range up to 600MHz with less than 0.12 VSWR, less than 0.2dB insertion loss and 60dB isolation between terminals. Rated at 2.5 KW PEP or 1KW CW. Auto grounding of unused terminals, SO-239 connectors **\$26.99**



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MFJ MFJ ENTERPRISES, INC.

ANTENNA MOUNTS



310 HT Antenna Window Mount Clip Your HT rubber duck antenna radiates poorly inside your car due to the shielding effect of the roof, doors, etc. Detach the duck from your HT and install on this handy BNC window mount clip. It holds your antenna securely on the outside of your car's window where it can radiate freely. Quick and easy to install and remove. Comes with 10' of flexible mini-coaxial cable **\$14.99**



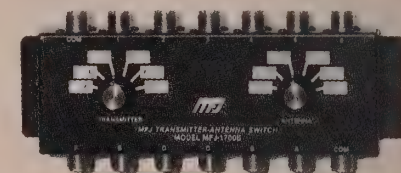
340 Mirror or Luggage Mount For mounting VHF/UHF and medium-size HF antennas on mirror, luggage rack or spare tire carrier of truck, van, RV or SUV **\$34.99**

345 Trunk/Hatchback Lip Mount Mounts on any lip on your vehicle. An extra-wide 4-inch lip and large reinforcing tabs on each side safely distributes the load. Mounts at any angle and allows at any desired angle **\$34.99**



LIGHTNING PROTECTION

270 Lightning Surge Protector Safeguard ham gear from damage due to static charges and lightning induced surges. Replaceable ultra-fast gas discharge tube safely shunts up to 5000 amps of peak impulse current to an independent ground. Rated to 400W PEP, usable up to 1000MHz..... **\$29.99**



COAXIAL SWITCHES

1700B Antenna and Transceiver Switch Select up to six antennas and six rigs in any combination – tuner, SWR meter, linear, etc. Can be left in line to operate with any combination 50 or 75Ω. Handles 2KW PEP or 1KW CW from 1.8 to 30MHz. Unused positions are automatically grounded for lightning protection. 10" w x 3" h x 1.5" d **\$79.99**



1701 Antenna Switch Six positions, for 50–75Ω systems. Rated for 2KW PEP or 1KW CW from 1.8–30MHz. Unused positions are grounded for lightning protection. 10" w x 3" h x 1.5" d... **\$49.99**

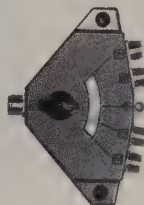
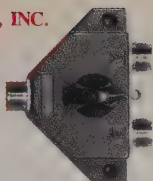
MORE COAXIAL SWITCHES

1702C Antenna Switch Two positions plus center ground, 50Ω. Rated to 500MHz with <0.2dB loss, 2.5KW PEP or 1 KW CW. >60dB isolation @ 300MHz or >50 dB @ 450MHz. Unused terminal automatically grounds for lightning protection **\$24.99**

1702CN Lowest loss on UHF. Uses Type N connectors which are good up to 1.1 GHz..... **\$34.99**

1704 Antenna Switch Four positions, plus center ground. 50Ω, rated to 500MHz with <0.2dB loss. Handles 2.5KW PEP, 1KW CW, >50dB isolation @ 500MHz. Includes a replaceable lightning protection device **\$64.99**

1704N with Type N's..... **\$74.99**

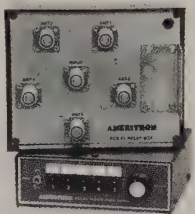


AMERITRON

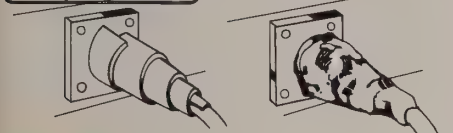
REMOTE CONTROLLED SWITCHES

RCS-4 Select up to 4 different HF antennas using just one coaxial feed line. The weather-proof switch box locates out on the tower, mast or other remote location. The control box connects at operating position and switches antennas with a control voltage routed directly through the coaxial cable without a separate control wire. Rated 1.8-30MHz, 2KW **\$129.99**

RCS-8V Independently or simultaneously select up to 5 different antennas using one coaxial feedline and 8-wire control cable. Internal wiring allows grounding or floating unused terminals as required. Rated at 5KW below 30MHz, and 1KW up to 150MHz **\$139.99**



COAX-SEAL



UNV 104 Hand Moldable Plastic for Antenna Component Protection The quick and effective way to seal and protect all types of coaxial fittings, baluns, antenna parts and connectors. Simply wrap it on like regular tape, then mold it to any shape. It adheres tightly to metal, vinyl and polyvinyl coax outer jackets. Stays flexible and sealed at any temperature for years to resist moisture penetration and deterioration. Its permanent flexibility makes it possible to remove and re-install fittings, then re-seal just by reforming the same material. Non toxic and non-contaminating roll, 1/2" w x 60" ... **\$3.99**



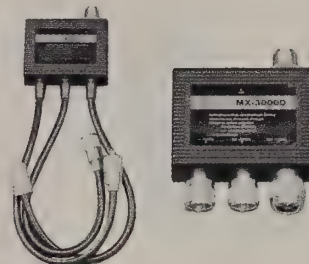
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DUPLEXERS

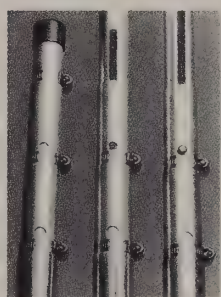
Type	S0239 PL259/PL259	S0239 PL259/Nfemale	S0239 S0239/S0239	S0239 PL259/PL259	S0239 PL259/Nfemale	Nfemale PL259/Nfemale	PL259 S0239/S0239
Leads	No	No	No	Yes	Yes	No	Yes
2m/440	Comet CF4160K Diamond MX72D MFJ 916	Comet CF4160I	Comet CF4160J Valor D270	Comet CF416A Comet CF530 Diamond MX72H	Comet CF416B Diamond MX72N Yaesu AD3	Comet CF416C Comet CF416W	
2m/220	Diamond MX214D			Comet CF142			
HF/6 to 440				Comet CF360A			Comet CF360B
HF to 6/2m				Comet CF706A Diamond MX62M			

TRIPLEXERS

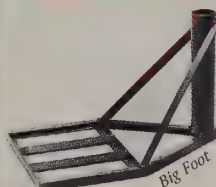
Type	Leads	HF/6/2/440/1200	HF/6/2/440	2/220/440
Nfemale PL259/PL259/Nfemale	No	Comet CFX4310C		
S0239 PL259/PL259/PL259	Yes	Diamond MX2000	Comet CFX514	Comet CFX324A Diamond MX324
S0239 PL259/PL259/PL259	No		Comet CFX5140	Comet CFX324B Diamond MX324D
Nfemale PL259/PL259/Nfemale	Yes	Diamond MX3000		
S0239 PL259/PL259/Nfemale	Yes		Comet CFX514N	
S0239 S0239/S0239/S0239	No		Comet CFX514J	



For duplexer/triplexer prices, see the Price Guide under each respective manufacturer.



NEW WAVE Antenna



PORTABLE COLLAPSIBLE MASTS

For Portable or Temporary antenna installations 7-section, telescoping masts manufactured from 6061-T6 polished aircraft aluminum with a 2" to 1.25" taper. Light-weight, easily raised by one person at ground level in seconds. Each section joint has a 4" overlap and snaps into place. Rotates at any section along its length, or securely locks into place. Snap-on antenna and park-on steel mount options.

ADVENTURER 47" to 12 ft, 4.5 lbs..... **\$109.99**

TRAVELER 59" to 19 ft, 6.5 lbs **\$124.99**

ROVER 71" to 26 ft, 8.5 lbs..... **\$149.99**

EXPEDITIONER 83" to 33 ft, 10.5 lbs... **\$174.99**

EXPLORER 95" to 40 ft, 12.5 lbs..... **\$199.99**

BIG FOOT Park-on steel mount, 8.5 lbs . **\$119.99**

SNAP ON MOUNT Attach antennas to portables without tools. Adds 12" **\$19.99**



STUF Dielectric Water-proof Connector Filler Seals out moisture. High purity macroscopic foam that dielectrically simulates the coaxial cable core. Fill coax connectors and tighten. The filler material hydraulically channels into all connector voids and points of moisture entry. Non-hardening, easy to remove. No silicones, or other additives to harm coax cable material (tube) **\$4.99**



PT-3 Preamplifier Covers 2-54MHz and useable with either a receiver or transceiver. A tunable low noise dual-gate FET circuit provides >20dB gain, low N.F. and improved spurious and image rejection. An RF sensed switch with variable delay automatically bypasses to antenna on transmit. Second receiver or antenna capability. 12V DC, or use P-12T AC adapter (\$9.99). 2.5" h x 8.75" w x 6.5" d... **\$124.99**



TPA Tunable Pre-amp/Active Antenna Use as a preamplifier to improve receiver gain, or as an indoor active antenna. Covers 0.22 -30MHz in 5 bands. A dual-gate FET device provides an excellent N.F. and >20 dB gain. As a preamplifier, the input matches most antennas; long wire, 300Ω and random lengths. When no external antenna is available, the preamplifier's built-in 30 in. collapsible whip gives great results. Uses 9V battery or P-9T AC adapter (\$9.99). 1.5" h x 8" w x 6.5" d..... **\$76.99**

PENETROX™

PENETROX® A Recommended for use on aluminum-to-aluminum and aluminum-to-copper connectors, on bare conductors, and bus bars. Good for all voltages. Assures a high conductivity joint by sealing out air and moisture to prevent corrosion and reformation of oxide film. Apply to mating pieces of antenna components, tubing, etc. during assembly to provide a non-corrosive, low resistance and air tight seal. Makes later disassembly a breeze..... (4oz bottle) **\$12.99**



hy-gain® ROTATORS

... the first choice of hams around the world!

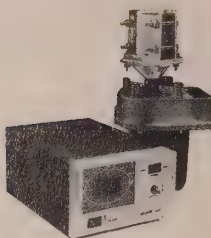


The HAM-IV

is the most popular rotator in the world! It is designed for medium communications arrays of up to 15 sq. ft. wind load area. Low temperature grease permits normal operation down to -30° F. New alloy ring gear gives extra strength up to 100,000 PSI for maximum reliability. The indicator potentiometer leads have ferrite beads to reduce RF susceptibility. For convenience a Cinch® plug connector is used at the rotor plus an 8-pin plug at the control box. Dual 98 ball bearing race for load bearing strength and electric locking steel wedge brake prevents wind induced antenna movement. North or South center meter scale. Maximum mast size: 2.063 in. **\$529.99**

Ham-IV Specifications

Wind Load cap.(inside tower)	15 square feet
Wind Load (w/mast adapter)	7.5 square feet
Turning Power (in lbs.)	800
Brake Power (in lbs.)	5000
Brake Construction	Electric Wedge
Ball Bearing Assembly	Dual race/96 bearings
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	8 (Belden 8448 or 9405)
Shipping Weight (lbs.)	24
Effective Moment (in tower)	2800 ft/lbs.



The HDR-300A

is the best for king-sized antenna arrays up to 25 sq. ft. wind load. Machined steel output gear. Tough, hardened stainless steel output shaft with a long keyway for added reliability. North or South centered calibration. Ferrite beads are installed on the potentiometer wires to reduce RF susceptibility. Heavy-duty self-centering steel mast clamp and hardware. Digital heading display accurate to 1°. Mast size: 1.25"-3" .. **\$1229.99**

HDR-300A Specifications

Wind Load capacity	25 square feet
Wind Load (w/mast adapter)	N/A
Turning Power (inch lbs.)	5000
Brake Power (inch lbs.)	7500
Brake Construction	Solenoid operated locking
Bearing Assembly	Bronze sleeve w/rollers
Mounting Hardware	Stainless steel bolts
Control Cable Conductors	7 (Belden 8448 or 9405)
Shipping Weight (lbs.)	55
Effective Moment (in tower)	5000 ft/lbs.

The TAILTWISTER SERIES II



is designed for medium communications antenna arrays of up to 20 sq. ft. wind load area. Available with DCU-1 Pathfinder Digital control box (T-2XD) or standard Analog control box (T-2X). Low temperature grease, alloy ring gear, indicator potentiometer, ferrite beads on potentiometer wires, weatherproof AMP connectors plus 8-pin plug at the control box. Triple bearing race with 138 ball bearings for large load bearing strength, electric locking steel wedge brake, North or South center meter scale, low voltage control. Maximum mast size: 2.063 in. **T-2X** with analog control **\$619.99**
T-2XD with DCU-1 control **\$979.99**

TAILTWISTER Specifications

Wind Load cap.(inside tower)	20 square feet
Wind Load (w/ mast adapter)	10 square feet
Turning Power (in lbs.)	1000
Brake Power (in lbs.)	9000
Brake Construction	Electric Wedge
Ball Bearing Assembly	Triple race/138 bearings
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	8 (Belden 8448 or 9405)
Shipping Weight (lbs.)	28
Effective Moment (in tower)	3400 ft/lbs.

The AR-40



is for large FM-TV and compact communication antenna arrays up to 3.0 sq. ft. wind load area. The dual 12 ball bearing race is exclusive in its class. Automatic position sensor never needs resetting. Fully automatic control, just dial and touch for any desired location. Solid state, low voltage control. Safe and silent operation. Maximum mast size: 2.063 in. Includes light duty lower mast support.... **\$269.99**

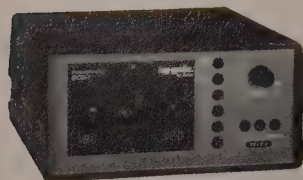
AR-40 Specifications

Wind Load cap.(inside tower)	3.0 square feet
Wind Load (w/mast adapter)	1.5 square feet
Turning Power (inch lbs.)	350
Brake Power (inch lbs.)	450
Brake Construction	Disc Brake
Ball Bearing Assembly	Dual race/12 bearings
Mounting Hardware	Plated clamps/steel bolts
Control Cable Conductors	5 (Belden 8448 or 9405)
Shipping Weight (lbs.)	14
Effective Moment (in tower)	300 ft/lbs.

The DCU-1 PATHFINDER

Digital Rotator Control unit compatible with CD-45-II, T-2X, HAM-IV

Automatic operation of brake and rotor with digital readout out of your beam heading, accurate to 1°, and 360° choice for center of rotation. Automatic 8-second brake engagement delay reduces stopping torque stress. Six presets store favorite headings. RS-232 computer control, compatible with many logging and contest programs.. **\$619.99**



THE HAM-V

Designed for medium communications antenna arrays of up to 15 sq. ft. wind load area. Includes the innovative DCU-1 Pathfinder control unit. A strong 100,000 p.s.i alloy ring gear and a new indicator potentiometer have been added for improved reliability. For convenience, a Cinch® connector is used at the rotor and an 8-pin plug at the control box. Ferrite beads reduce RFI. Powder coated finish. Max. mast size: 2.063 in. **\$899.99**

HAM-V Specifications

Wind Load cap.(inside tower)	15 square feet
Wind Load (w/mast adapter)	7.5 square feet
Turning Power (in lbs.)	800
Brake Power (in lbs.)	5000
Brake Construction	Electric Wedge
Ball Bearing Assembly	Dual race/96 bearings
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	8 (Belden 8448 or 9405)
Shipping Weight (lbs.)	24
Effective Moment (in tower)	2800 foot/lbs.



The CD-45-II

handles 8.5 sq. ft. mounted inside a tower, or 5 sq. ft. with mast adapter. Low temperature grease good to -30°F. Bell rotator design gives total weather protection, dual 58 ball bearing race gives proven support. Die-cast ring gear, stamped steel gear drive, heavy duty, trouble free gear train, North or South center scale, lighted directional indicator, 8-pin plug on control unit, snap-action control switches, low voltage control, safe operation, takes masts up to 2.063". Includes light duty lower mast support..... **\$369.99**

CD-45-II Specifications

Wind Load cap.(inside tower)	8.5 square feet
Wind Load (w/mast adapter)	5.0 square feet
Turning Power (inch lbs.)	600
Brake Power (inch lbs.)	800
Brake Construction	Disc Brake
Ball Bearing Assembly	Dual race/48 bearings
Mounting Hardware	plated clamps/steel U-bolts
Control Cable Conductors	8 (Belden 8448 or 9405)
Shipping Weight (lbs.)	22
Effective Moment (in tower)	1200 ft/lbs.

Rotator Accessories

- MSHD** Heavy duty lower mast support for Ham-IV/V, T-2X/XD **\$81.99**
MSLD Lower mast support for CD-45-II, AR-40 **\$29.99**
TSP-1 Tower spacer plate **\$29.99**



We accept I.M.P.A.C.® Government Credit Cards

YAESU



ROTATORS

Precision designed for a wide variety of antenna installations • Strong, weatherproof, die-cast aluminum enclosures • Permanently lubricated for years of smooth, quiet operation • 450° Rotation • Selectable north or south center • Quiet, gear reduction braking • 117/220 VAC • Fits most USA-made tower shelves. Recommended Belden cables listed below.

G-2800DXA (left) The top-of-the line rotator for extra heavy-duty applications. 450° total rotation, with presets • 34 sq. ft. wind load • K-factor of 6870 ft. lbs. • 1808 ft. lbs. of stationary torque • Rotation torque: 57.8-181 ft. lbs., rotation speed and torque vary with the speed control setting • Maximum vertical load of 661 lbs. • $\pm 1/2^\circ$ backlash • 1.875-2.5" mast size • 48-150 second 360° rotation • Optional GS-232A interface • Requires 6-wire cable • 8"dia. x 13.375" h • 13.2 lbs **\$1139.99**

G-1000DXA (right) High-performance for medium and heavy-duty applications. Total rotational range 450°, with presets • 23 sq. ft. wind load • K-factor of 2020 ft. lbs. • 433 ft. lbs. of stationary torque • Rotation torque: 43-79 ft. lbs., rotation speed and torque vary with speed setting • Max. vertical load: 440 lbs. • $\pm 2^\circ$ backlash • 1.5-2.5" mast • 35-74 sec. 360° rotation • Optional GS-232A interface • Requires 6-wire cable • 7.5"dia. x 12.5" h • 7.7 lbs **\$519.99**



G-450A (left) For HF/VHF light to medium-duty applications, without presets • 10 sq. ft. wind load • K-factor of 722 ft. lbs. • 217 ft. lbs. of stationary torque • Rotation torque: 43 ft. lbs. • Maximum vertical load of 220 lbs. • 1.5-2.5" mast size • 53 second 360° rotation • Requires 5-wire cable • 7.5"dia. x 12.5" h • 7 lbs **\$259.99**

G-5500 (right) Azimuth-Elevation rotator combo for satellite earth station & other space communication antennas • 11 sq. ft. wind load • 578 ft. lbs. K-factor • 145 ft. lbs. stationary torque • Rotation torque: 44 ft. lbs. • 440 lbs. max. vertical load • $\pm 4\%$ backlash • 1.5-2.5" mast • 58 sec. 360° rotation • 67 sec. 180° elevation • Opt. GS-232A interface/C-1000 cable • 1.25-1.625" boom dia. • Requires 2 x 6-wire cable • 12.5"dia. x 7.5" h, 20 lbs **\$629.99**

G-550 Elevation rotator, for satellite earth station and other space communication antennas • 12 sq. ft. wind load • K-factor of 578 ft. lbs. • 101 ft. lbs. of stationary torque • Rotation torque: 73 ft. lbs. • Maximum vertical load of 440 lbs. • $\pm 3\%$ backlash • 1.5-2.5" mast size • 67 second 180° elevation • 1.25-1.625" boom diameter • Requires 6-wire cable • 10.5"dia. x 7.5" h • 7.3 lbs ... **\$299.99**



G-800DXA (left) High-performance for medium-duty applications. Total rotational range 450°, with presets • 17 sq. ft. wind load • K-factor of 1299 ft. lbs. • 288 ft. lbs. of stationary torque • 43-79 ft. lbs. rotation torque, rotation speed/torque vary with the speed control setting • Max. vertical load of 440 lbs. • $\pm 2^\circ$ backlash • 1.5-2.5" mast • 35-74sec. 360° rotation • Optional GS-232A interface • Requires 5-wire cable • 7.5"dia. x 12.5" h • 7.5 lbs ... **\$429.99**

G-800SA (right) High performance for medium-duty applications. Total rotational range 450°, no presets • 17 sq. ft. wind load • K-factor of 1299 ft. lbs. • 288 ft. lbs. of stationary torque • 43-79 ft. lbs. rotation torque, rotation speed/torque vary with the speed control setting • Max. vertical load of 440 lbs. • $\pm 2^\circ$ backlash • 1.5-2.5" mast size • 44 second 360° rotation • Quick-disconnect plug • Requires 5-wire cable • 7.5"dia. x 12.5" h • 7.5 lbs ... **\$339.99**



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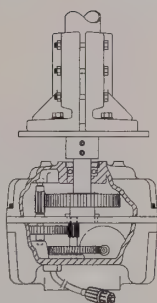
SATELLITE TRACKING WITH A PC

GRA KCT Kansas City Tracker Package A hard/software package connecting directly to a rotor controller and IBM XT AT, or clone. Controls antenna array, letting a PC track any satellite or orbital body • Custom serial interfaces • Does not use COMM ports • Runs in "spare time," a PC can run other programs at the same time • Load tables with more than 50 satellite passes using QuikTrak or GrafTrak • Use pop-up to work an antenna rotor (compatible with all DX logging programs) • Morse-code sender section announces rotor position and status • Half-size interface card that plugs into a PC • Interface cable, connector, software, Yaesu/Kenpro 5400/5500/5600 cable and rotor interface option • Compatible with DOS 2.0 or higher **\$229.99**

GRA KCT/T Kansas City Tracker Package Plus Tuner The tuner option provides automatic doppler-shift compensation for digital satellite work. Compatible with most rigs, it controls a radio thru the serial computer port or the up/down mic-click interface. Perfect for low-orbit digital satellites like the NOAA and Microstat satellites **\$329.99**



OR-2800PDC Heavy-duty. Rotator Powerful and reliable, rotates multiple HF antennas or large VHF or UHF arrays with ease. The control box provides manual features plus heading preset, 10 programmable presets, programmable ramped start/stop, 1/2-degree target accuracy. Includes RS-232 port for computer control • Precision worm-gear drive, not reversible by mast torque • Non-slip, ductile iron mast clamps • Large drive plate for masts up to 3" • Heat-treated steel gear train, hardened driveshaft • Prop-pitch style torque plate • Fits inside most popular towers and mates to standard towers and rotator plates • Motor-mounted digital pulse switch for accurate, closed loop control and heading display • 35 sq. ft. wind area • 1800 lbs. vertical load • 1.75-3.125 O.D. mast size • 55-270 second rotation speed • 0.1°/0.5° travel resolution • 110/ 220V AC, 50/60Hz input • 28-42V DC motor • Requires 4-wire rotor cable, it's recommended to use Belden 8448 or 9405 (8-wire) and double up • 15.75" h total, 9.75" h rotor • 42 lbs **\$1572.99**



Channel Master



9521A Drive Unit: Handles small to medium-sized VHF/UHF Ham antennas and TV antennas • One-piece cast aluminum housing • Heavy-duty rotator motor, three wire control • Precision-cut gear system • Built-in steel thrust bearing • Wind-tested brake pad • Durable powder-coated finish
Control Unit: Direct access via channel number or compass heading • Compatible with most remote controls • Separate infrared remote controller • 69 channel programmable memory • Auto-synchronization for pinpoint accuracy • 3-wire **\$99.99**



UNIVERSAL TOWERS

ALUMINUM, FREESTANDING, SELF-SUPPORTING AT RATED LOAD

Universal offers 10-foot easy-to-assemble sections or complete towers ranging from 30 to 100 feet with a choice of wind load ratings and accessories. The lightweight, rust-free, strong, aluminum sections are equilateral, triangular, welded trusses available in 11, 14, 18, 22, 26 or 30-inch widths. To choose the proper tower: a) Determine the projected surface area of the mountable antenna. This figure is often found in the accompanying antenna literature. If not, use the following standards: standard TV antennas = 2 sq. ft. in area; 6/10 meter beams and large TV antennas = 5 sq. ft.; 20/40 meter beams = 9 sq. ft.; large 20/40 meter beams or multiple antenna arrays = 18-26 sq. ft. [when using a rotator, add 1 sq. ft., plus 1 sq. ft. for the mast, to the antenna size] b) Decide on the desired tower height. [sectional towers provide the option to add height later] c) Choose a model based on height and windload. Model numbers are merely wind load followed by height. [eg. Model 5-50 = 5 sq. ft. wind load + 50' desired height]

Check out our full line of accessories including: Tower Motor Drives
5 ft. to 20 ft. Antenna Masts • 20 ft. Chromolly Masts • Thrust Bearings • Mast
Raising Fixtures • Rotating bases • Coax support arms • Limit Switch Packages

MA SERIES CRANK-UP TUBULAR TOWERS

Will handle 10 sq. ft. antennas at 50 MPH winds.

MODEL NO.	HEIGHT MAX.	HEIGHT MIN.	NUMBER SECTIONS	WT #	SECTION OD Top	SECTION OD Bot.	BASE SIZE	AES PRICE
MA-40	40 ft.	21' 6"	2	242	3" sq.	4 1/2"	12"x 12"x 12"	\$ 899.99
MA-550	55 ft.	22' 1"	3	435	3" sq.	6"	18"x 18"x 18"	1499.99
MA-550MDP	55 ft.	22' 1"	3	620	3" sq.	6"	3'x 3'x 5'	2932.99
MA-770	70 ft.	22' 10"	4	645	3" sq.	8"	3'x 3'x 6'	2529.99
MA-770MDP	70 ft.	22' 10"	4	880	3" sq.	8"	3'x 3'x 5 1/2'	3999.99
MA-850	85 ft.	23' 6"	5	943	3" sq.	10"	4'x 4'x 6'	3909.99
MA-850MDP	85 ft.	23' 6"	5	1128	3" sq.	10"	4'x 4'x 6'	5391.99

*Standard bases and eave mounts included with all towers (except MA-770, 770-MDP and 850 MDP)

• MDP models complete with heavy-duty motor drive with positive pull down.

FREE STANDING CRANK-UP TOWERS

Will handle 18 sq. ft. antennas at 50 MPH winds.

MODEL NO.	HEIGHT MAX.	HEIGHT MIN.	NUMBER SECTIONS	WT #	SECTION OD Top	SECTION OD Bot.	BASE SIZE	AES PRICE
TX-438	38 ft.	21' 6"	2	355	12 1/2"	15"	3'x 3'x 5'	\$1142.99
TX-455	55 ft.	21' 6"	3	670	12 1/2"	18"	3'x 3'x 6'	1699.99
TX-472	72 ft.	22' 8"	4	1040	12 1/2"	21 1/2"	4'x 4'x 7'	2832.99
TX-472MDP	72 ft.	22' 8"	4	1210	12 1/2"	21 1/2"	4'x 4'x 7'	4549.99
TX-489MDPL	89 ft.	23' 4"	5	1800	12 1/2"	25 1/2"	4'x 4'x 8 1/2'	7390.99

*TX-472MDP includes heavy duty motor drive with positive pull down. *TX-489MDPL comes with heavy duty motor drive with dual level wind and positive pull down. MDPL models include fully operational limit switch packages.

FREE STANDING HEAVY-DUTY CRANK-UP TOWERS

Will handle 30 sq. ft. antennas at 50 MPH winds.

MODEL NO.	HEIGHT MAX.	HEIGHT MIN.	NUMBER SECTIONS	WT #	SECTION OD Top	SECTION OD Bot.	BASE SIZE	AES PRICE
HDX-538	38 ft.	21' 6"	2	600	15"	18"	3'x 3'x 6'	\$1477.99
HDX-555	55 ft.	22'	3	870	15"	21 5/8"	4'x 4'x 6'	2569.99
HDX-572MDPL	72 ft.	22' 8"	4	1600	15"	25 5/8"	4'x 4'x 8 1/2'	6775.99
HDX-589MDPL	89 ft.	23' 8"	5	2440	15"	30 5/8"	5'x 5'x 8 1/2'	8869.99
HDX-689MDPL	89 ft.	23' 8"	5	3450	18"	37 1/8"	5'x 5'x 9 1/2'	17,135.99
HDX-5106MDPL	106 ft.	24' 8"	6	3700	15"	37 1/8"	5'x 5'x 9 1/2'	18,647.99

*Includes heavy-duty motor drives with dual level wind and positive pull down. MDPL models include fully operational limit switch packages. *HDX-689MDPL rated 60 sq. ft. of antenna at 50 mph winds. HDX-5106MDPL rated at 35 sq. ft. of antenna at 50 mph winds

FREE STANDING "LOW-PROFILE" COMPACT CRANK-UP TOWERS

The SS will handle 18 sq. ft. and HD, 24 sq. ft. antennas at 50 MPH winds.

MODEL NO.	HEIGHT MAX.	HEIGHT MIN.	NUMBER SECTIONS	WT #	SECTION OD Top	SECTION OD Bot.	BASE SIZE	AES PRICE
TMM-433SS	33 ft.	11' 4"	4	315	10"	18"	3'x 3'x 4'	\$1219.99
TMM-433HD	33 ft.	11' 4"	4	400	12 1/2"	20 1/2"	3'x 3'x 5'	1477.99
TMM-541SS	41 ft.	12'	5	430	10'	20 1/2"	3'x 3'x 4 1/2'	1599.99

* Rotators must be top mounted on SS models. Yaesu G800S/SDX will fit in and nest.

*** Any tower purchased with a MDP-750 or MDPL-1000 motor drive MUST be purchased with either the MCL-100 or the RMC-1000.

All towers are drop shipped direct from the factory. Shipment is FOB Visalia, CA via truck.
Additional freight charges will apply. Ask for details.

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FOR
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ORIES LIST

WRITE OR
CALL FOR A
COMPLETE
US TOWER
CATALOG -
FREE!

tilt-over base



Empowering Your Digital Life.

It's Time to Power Up.



MH-C777/PLUS **Universal Charger & Analyzer**

- Charge/Analyze nearly any battery pack for ham radio, cellular, and more.
- Support Lithium Ion, Lithium Polymer, NiMH, and NiCD battery chemistries.
- Supports a wide range of voltage for 1.2V to 14.4V (1 to 12 cells) for NiMH & NiCD, and 3.6V to 14.4V (1 to 4 cells) for Lithium Ion.
- Charge 1 to 12 AA, AAA, C, and D rechargeable battery cells (option battery holder needed).
- Intelligent microprocessor driven Negative Delta V detection, Zero Delta V, and Delta Temperature.
- Digitally displays voltage, time, and capacity throughout the charge and discharge process.
- Includes a light weight travel AC adapter (80V to 240V AC) and car kit.



RECHARGEABLE
UP TO
1000
TIMES

NiMH Rechargeable Battery AA / AAA

- Rechargeable up to 1000 times.
- Ultra high capacity.
- Memory free operation.
- Low impedance battery design.

MH-C204F **SMART CHARGER FOR 2 / 4** **AA / AAA NiMH & NiCD**

- Microprocessor controlled 3 hr. rapid charge.
- Automatic trickle charge to prevent overcharging.
- Conditioning feature to rejuvenate your batteries.
- Car kit optional.

ULTRA HIGH CAPACITY NiMH BATTERY PACKS FOR TWO-WAY RADIOS

- Ultra high capacity NiMH rechargeable battery packs.
- Memory-free operation.
- Diverse selection of battery packs for different two-way radios, backed by Maha's one-year limited warranty.



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RECHARGEABLE HIGH CAPACITY NIMH BATTERIES

D-800 1.2V, 8000 mAh "D"	Closeout \$12.99
C-380 1.2V, 3800 mAh "C"	Closeout 6.99
AA-160 1.2V, 1600 mAh "AA"	3.99
AAA-T 1.2V, 650 mAh "AAA"	2.99
9V 8.4V, 170 mAh (9V sized)	8.99
MH-FNB-72 An ultra high capacity 1700mAh, 9.6V NiMH battery exclusively for the Yaesu FT-817. Includes a cable that enables recharging the pack in 3 hours using a MAHA MH-C777, MH-C777PLUS, or MH-C888 charger	
	\$59.99

RECHARGERS

MH-C204F Smart Charger for 4 AA/AAA Batteries
Rapid charge two or four AA/AAA NiCad/NiMH batteries. Rejuvenate and restore dead batteries. Can be used on a 12V power supply and in a car with the optional car kit

\$24.99

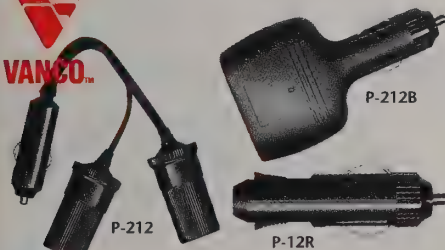
MH-C888 Smart Universal Drop-In Charger and Conditioner Convenient rapid charger and conditioner for NiMH/NiCad 2-way radio battery packs. Special FLEX negative pulse feature prevents crystallization of battery pack. Deep-conditioning battery care feature allows 3 consecutive charge and discharges.

Bank up to 12 chargers on a single power source. Built-in switching power supply, for home, office and 12V portable use.....

\$59.99

MH-C777 Smart Universal Charger and Conditioner Rapid charge and rejuvenate almost any NiCad/NiMH battery pack for a two-way radio, camcorder, cellular or notebook computer. Conditioning feature may rejuvenate dead battery packs. Car kit included. Supports 4.8 to 12V battery packs

\$49.99



P-212 Two-Outlet Cigarette Plug Adapter Use two 12V accessories from 1 outlet

\$4.99

P-212B Dual Cigarette Socket Enables two 12 volt accessories to be used from one outlet, comes with replaceable 15 amp fuse

\$8.99

P-12R Two-Contact Cigarette Plug Solder type with twin contact ears, strain relief and grip end

\$1.99



CARRYING CASES

18 HamGear™ Tactical Chest Harness (left) Perfect for rugged use, emergency radio operators and on-the-go hams! Use it for portable hamfest use, DXpeditions, field day, biking, hiking, etc. Made of durable heavy duty twill burlap, this interwoven fabric is water resistant and will cushion blows and scrapes. Adjustable shoulder straps. Harness is firmly held in place by stretchable inter-woven elastic belt with snap hook and adjustable sliders supported by nylon straps. A 5 x 7 inch cargo pocket holds another radio, maps, etc.....

\$29.99

15 HamGear™ Belt Radio Holder (right) Durable twill burlap pocket with elastic cord and velcro closure easily stretches over any HT. Belt slides easily through 2 x 3 inch loop

\$14.99

BATTERIES

92AA01 Super Ni-MH "AA" batteries - they have twice the power of standard NiCads. Rated at 1300 mAh, these NiMH 1.2 volt batteries greatly extend operating time and do not exhibit the capacity reducing memory effect of NiCads. Perfect for use with the 259B/269 SWR analyzer with its built-in battery charging circuit. The 631 or 632 charger is recommended.....

\$2.99

92AA10 Super NiMH 10-pack.....

\$24.99

The Pouch

Carrying case made of Neoprene and Nylon. "Bungee-type" restraining strap. Belt loop clasp locks onto belt.

Make-Model	Pouch#	Price
ADI		
AT-201/401 & PR-52/222	T-2A	14.99
ALINCO		
DJ-196/496/596 & S11/41	P5	14.99
280TH	VX-3T	14.99
V5TH/V5TDCH	V-5T	14.99
ICOM		
IC-Q7ABC	508	12.99
T2H	T-2A	14.99
T81A	S10	12.99
V8	VX-3T	14.99
W32A	32-5T	14.99
KENWOOD		
TH-D7A	DTX	17.99
G71A	G-71	14.99
79A	S2	14.99
YAESU - VERTEX		
FT-50RD	10R	14.99
VX-1R	1R	12.99
SR	5R	14.99
150	110-150	17.99

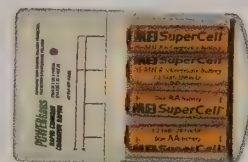


ANALYPouch

The original from The Pouch (for MFJ Analyzer). Clear window over readouts. Back-pocket for accessories. Shoulder strap included. \$24.99

PackerPOUCH

For Yaesu FT-817. Apertures for mike and head-phone plugs on side. Hole big enough for PL259 coax connector and cord for aux. power on rear. Uses shoulder strap on transceiver. \$24.99



CHARGERS

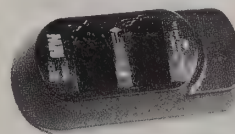
PowerHaus™ Rapid and Trickle battery chargers Perfect for charging NiMH or NiCad rechargeable batteries used in your 259B/269 SWR Analyzer or other equipment. It has a removable dust cover and an AC 12 Volt, 800 mA wall adapter is included. Reverse Polarity Protection and a bright red LED indicator that shows charging status. They Do NOT charge alkaline batteries.

631 Trickle Charger Charges 2 to 4 NiMH or NiCad "AA" batteries in 14 hours.....

\$9.99

632 Rapid Charger Quick charges 2 to 4 "AA" or "AAA" NiMH or NiCad rechargeable cells in one hour or less

\$19.99



641 RapidBattery™ Universal Chargers Charges NiCad or NiMH battery packs. Features both quick and trickle cycles.

Circuitry with LED indicators determines when the battery is charged, preventing overcharge. Universal interchangeable slots for fast, simple drop-in charging. 641-I2 (Icom BP-131/BP-132), 641-Y3 (Yaesu FNB-31/33).....

Closeout See Price Guide



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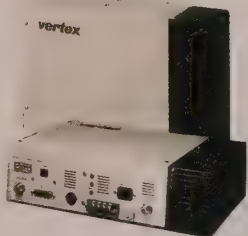


Power Pocket Portable power for emergencies, ham-fests, hiking, etc. The 12V @ 2A/hour sealed lead-acid rechargeable battery provides up to 6X longer talk time than standard packs. Recharges completely in 6-8 hours, with the supplied charger. Partial discharges can be recharged to 100% without NiCad memory effect. Radio conveniently plugs into included female adapter socket. Compact carrying case with belt loop and shoulder strap. 3.5" w x 1" d x 6.5" h, 30 oz..... **\$66.99**

YAESU

FM REPEATERS

- 2-25W 100% duty cycle • 8 channels - PLL synthesizer • Optional programming kit • CTCSS enc/decode • Programmable features: Frequency, CTCSS, Hi/Low power, Hang timer, Time-out timer • Wall mount or optional 19" rack mounting kit • DB-25 connector and 8-pin modular jack • Modular card style unit construction • Optional Comm Spec ID'er • 14.75" x 10.75" x 4.375", 25 lbs.



VXR-5000UCDC 440MHz, DC..... **\$1199.99**
VXR-5000U/TC 440MHz, AC ps..... **1399.99**
VXR-5000VADC 2m, 12VDC..... **1199.99**
VXR-5000V/TA 2m, AC supply..... **1399.99**

VECTRONICS

Electronic Kits Each kit features a professional quality epoxy glass PC board with solder mask and screen printed component legend, step-by-step manual and high quality components. • 40M receiver • Crystal radio • 40M CW transmitter • AM radio transmitter • TV transmitter • Aircraft receiver • 2M preamp • 220MHz preamp • CW keyer • Battery conditioner • FM broadcast SCA decoder • SSB audio filter • Tunable SSB/CW audio filter..... **See Price Guide**



Look For This

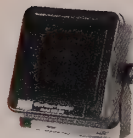
NEW

& Check Out AES' Latest Additions.

MFJ MFJ ENTERPRISES, INC.

SPEAKERS

281 ClearTone™ Communications Speaker Features a 3" Mylar cone speaker mounted in a well-designed baffle. Improves speech intelligibility in the 600-4000Hz range while reducing undesirable noise, static & hum. 3.75" x 3" x 2.25"..... **\$12.99**



382 Deluxe ClearTone™ Amplified Speaker An excellent 1 Watt amplified speaker for QRPers, base station HT users or for operating with rigs requiring more volume. A quality 3 inch speaker provides loud, powerful audio. Volume adjusts from barely audible to high. All metal cabinet, rubber feet and vinyl clad cover. Uses 9V battery (not included) or 110V AC with optional adapter. Connecting cable is included. 3.5" h x 1.75" w x 4.5" d..... **\$39.99**

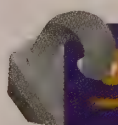


OTHER ACCESSORIES

434 Contest Voice Keyer™ New design, micro-processor controlled transformer-coupled - No RFI, hum or feedback. Automatically call CQ, send your call and do contest exchanges in your own voice! • Store frequently used phrases like "CQ, Contest this is AA5MT", "You're 59, QTH is Mississippi", etc. Record and play back five natural sounding messages totaling 75 seconds - EEPROM storage • Repeat messages continuously and vary the repeat delay from 3 to 500 seconds • Receive and play back off-the-air signals • Easy to use - plug in an 8 pin microphone cable and plug the MFJ 434 shielded cable into the microphone input • Internal jumpers allow customization to Kenwood, Icom, Yaesu, Alinco and others • Controls tailor audio level to match your voice • Built-in speaker and audio amplifier • Uses 9V battery, 9-15VDC or AC with optional adapter. 6.5" w x 2.5" h x 6.5" d.. **\$169.99**



931 Artificial Ground Unit Eliminates problems caused by inadequate grounding when using random length wire antennas. It resonates an additional length of wire to act as a tuned counterpoise. It results in easier tuning, improved efficiency, a better radiation pattern and reduced TVI/RFI. Covers 1.8 to 30MHz, RF ammeter tuning indicator. 7.5" w x 3.5" h x 7" d. Not for coax fed antennas..... **\$89.99**

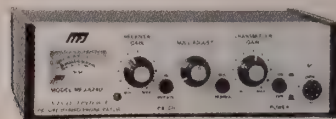


Secure

www.aesham.com



616 Speech Intelligibility Enhancer™ Provides approximately 20dB audio frequency boost or cut to four overlapping octave ranges centered at 300, 600, 1200 and 2400Hz. Improves ability to hear and understand SSB, FM, AM, CW QSOs by adjusting response levels to match hearing response for best clarity, then equalizing perceived loudness to each ear. Built-in dual, 2.5W, audio amps; front panel jack; speaker on/off switch; 2 selectable transceiver in-puts; bypass switch. Use with rig or PA system. 10" w x 2.5" h x 6" d, requires 12 VDC..... **\$159.99**



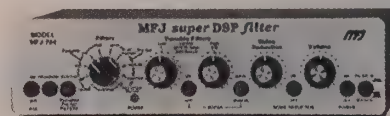
624D Deluxe Hybrid Phone Patch Interfaces a phone line with a rig for running phone patches. Jumper selectable for all Kenwood, Icom, Yaesu and Alinco transceivers using an 8-pin microphone connector. Adapts to work with virtually any rig. Uses 12VDC, 9V battery or 110VAC with AC adapter. 8" x 2" h x 6"..... **\$119.99**



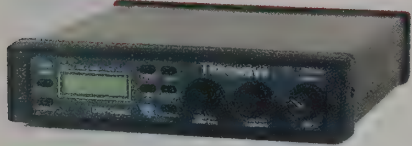
701 RFI Free Choke Kit Eliminate common RFI problems by winding offending cables around an RFI suppressing toroid. Effective from 0.5-200MHz. Separates into halves for easy winding of all types of cable: computer ribbon, TV coax, power cord, telephone wire, audio-video cables. Halves mount in snap-together plastic frame. For severe RFI problems and larger cables, multiples can be stacked for more effect. (Pack of 4 toroids)..... **\$14.99**



762 Step Attenuator Provides push-button selection of up to 81dB attenuation in 1dB steps • Excellent performance up to 170 MHz, usable to 500 MHz • 50Ω, 250 mW maximum input • BNC connectors with BNC-to-SO-239 adapters included • All metal cabinet, 6.5" w x 2.5" h x 1.5" d. **\$69.99**



784B Super DSP Filter Eliminates those heterodynes; reduces noise and interference on SSB/CW/AM, digital modes, VHF, EME, satellite. Tunable FIR filters minimize ring, prevent data errors. Up to 60dB attenuation. Tunable Spotting Tone™ auto tunes CW filter in narrowest bandwidth. 2W audio amp with AGC. 12V DC or 110VAC with MFJ-1315. 2.5" h x 9" w x 6" d..... **\$229.99**



DSP-599ZX Noise Filter Digital Signal Processing provides superior reduction of QRM and QRN • Incorporates the newest high speed CPU that gives unparalleled features and is field upgradeable • Exact filter settings seen through the LCD, push buttons, and "Visible Memory" • Optical encoders for continuous tuning of filters • Examines and measures signal and noise correlation, dynamically filtering out undesired noise • Data and bandpass filters with steep skirts and linear phase response for CW and RTTY • Bandwidths range from 10Hz-600 Hz, and center frequencies from 200-2150Hz • Wider filters allow easy tuning and listening to multiple CW signals simultaneously • Supported data filters are RTTY (two methods of use), AMTOR, PACTOR, G-TOR™, HF Packet, SSTV, WeFAX, SITOR and CLOVER • Test instrument mode provides audio sine wave generator, audio millivoltmeter and two-tone audio generator for maintenance/set-up of audio circuits in radios • VHF/UHF weak signal and aurora provides remarkable improvement in clarity • Improves readability of distorted aurora SSB signals **\$399.99**

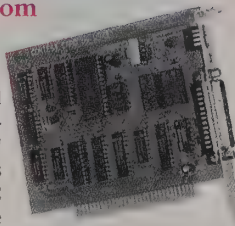


ANC-4 Antenna Noise Canceller And Diversity Combiner Works with any transceiver (250W or less) or receiver for voice, data and CW from 500kHz-80MHz. Reduces or eliminates locally-generated power line, computer and TV noise. It cancels noise before it affects AGC circuits. Frequently, reception of signals well below noise level is possible. Con-nects between antenna and connector. A second antenna acts as a noise pickup. Front panel controls allow adjustment of signal phase and magnitude. The ANC-4 also operates as an active antenna using a noise antenna and noise gain control to amplify antenna output. And, it can be used as a diversity combiner to pick up weak signals or null interfering signals. Requires 11-16V DC @ 300 ma. 1.7" h x 6" w x 4.3" d, 2 lbs..... **\$199.99**

ums@nconnect.com

CONTEST CARD

W9XT Contest Card for IBM™ & PC Compatible A non-volatile 5" x 4.5" card that plugs into a single 8-bit PC slot and provides voice recording, playback and CW keying. Stores a total 60 seconds of voice audio divided into four 15 second messages. Samples at 8 kHz for high quality and natural sound. Does not use any disk space. For CW, the card frees up the PC port, and a relay allows operation with positive or negative keying. Works with all rigs and is compatible with most popular logging programs..... **\$149.99**
CCC-4 or **CCC-8** Contest Card Cable Semi-kit Wired and tested except for connectors to line and transmitter. Includes 6 ft. shielded cable, CW keying line and record switch (4 or 8-pin)..... ea. **\$44.99**



TDF-370

Multi-Media Terminal with DSP Listen to amazingly clear audio, transmit and receive PSK31 and RTTY, apply potent filtering and hear "weak ones" others may miss. Digital modes without a PC! • Use powerful DSP noise reduction and filtering, including Fast Fourier Transform. Auto-notch function • Enhance audio reception of SSB and CW signals • Monitor SSB and CW signals in derived "stereo" • Decode and display PSK31 or RTTY, on the LCD • Enhance transmitted audio with 8 channels of microphone equalization • Digital Voice Recorder • Receive SSTV 56.7kHz (PC and software needed) • 2 selectable front panel inputs • Six outputs: phone, stereo headphones (included) internal or external speaker, mic, PTT and COM (RS-232C RTTY, PSK31, 9600 bps, SSTV-56.7kHz) • Requires 4 AA alkalines, NiCads or NiMHs or regulated external 9-15 VDC supply • 3.3" h x 4.3" w x 6.2" d, 12.3 oz... **\$329.99**

DSP noise reduction and filtering, including Fast Fourier Transform. Auto-notch function • Enhance audio reception of SSB and CW signals • Monitor SSB and CW signals in derived "stereo" • Decode and display PSK31 or RTTY, on the LCD • Enhance transmitted audio with 8 channels of microphone equalization • Digital Voice Recorder • Receive SSTV 56.7kHz (PC and software needed) • 2 selectable front panel inputs • Six outputs: phone, stereo headphones (included) internal or external speaker, mic, PTT and COM (RS-232C RTTY, PSK31, 9600 bps, SSTV-56.7kHz) • Requires 4 AA alkalines, NiCads or NiMHs or regulated external 9-15 VDC supply • 3.3" h x 4.3" w x 6.2" d, 12.3 oz... **\$329.99**



Pico 128K Miniature TNC Z-181 high integration MPU with 1M address space • On-line help • Personal message system • APRS • Open squelch DCD circuit included • Optional internal GPS receiver and slide-on battery pack. 1" h x 2.5" w x 3.5" d • Standard model with 128K RAM. **\$159.99**

Pico Dual 128K Dual Serial Port Model Adds hardware clock and second serial port for GPS or weather station to the standard model ... **\$209.99**

Tiny-2 MK-2 Multi-Purpose Basic TNC (top) 32K RAM • TNC-2 EPROM compatible WA8DED host mode • KISS mode for satellite and TCP/IP Telemetry via RS-232 or TTL port • Disconnect header • Packet communication for a weather node • 45ma. draw • 5" h x 7" d 1.375" h **\$159.99**

Spirit-2 High Performance Packet Controller (bottom left) Configures by setting jumpers and installing optional logic devices **\$249.99**

HandiPacket Packet controller For portable or mobile operation • Loaded with features • Built-in 10-hr battery pack • 1.25" h x 2.5" w x 4" d **\$229.99**

WEST MOUNTAIN RADIO



RIGblaster

The easiest way to properly connect a radio to a computer's sound card in order to operate using any present or future Ham Radio sound card software. Presently, ham radio sound card software, a RIGblaster, a radio and a computer is the easy and modern way to operate. A RIGblaster, plus a PC, take the place of old expensive adapters or TNC's.

PSK31 • MFSK16 • MT63 • Helischreiber
SSTV • RTTY • AMTOR • PACTOR • PACKET
APRS • CW • Contest Voice Keying • WJIT
High Speed FSK Meteor • CW High Speed
Meteor Scatter • FM Repeater Announcements
Simplex or Duplex Repeater Control

All RIGblasters come complete with everything needed to get on the air: CD, 4 cables and a 12V power supply. For a temporary or mobile setup, or operating phone using a microphone will never be of any interest, get the less expensive NOMIC model. If there is a need to operate the computer and also operate with a microphone, the 8-pin or RJ-45 modular jack model is available. To do all of the above, plus have the capability to operate direct keyed CW or FSK, opt for the PLUS model.

RB/M8/C RIGblaster 8 pin connector... **\$109.99**

RB/PL/C RIGblaster PLUS 8 pin **139.99**

RB/RJ/C RIGblaster RJ-45 modular **109.99**

RB/NO/8C RIGblaster NOMIC 8-pin **59.99**

RB/NO/RJC RIGblaster NOMIC RJ-45..... **59.99**

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SIRENS & HORNS

VS-2 Emergency Vehicle Siren Designed for the volunteer fireman, a quality-built wail-yelp alarm that delivers big sound performance (120dBa sound level at 4 ft.). Frequency range is 600 to 1200Hz. It is pre-wired with a 3-position switch (Yelp-Off-Wail). High efficiency waterproof horn speaker. Also includes 10 ft. cable, mounting bracket and hardware. 12VDC @ 1.5A, 2.7 lbs **\$89.99**



VS-2LS Siren-Light Combo A one-unit siren and yelp alarm, revolving halogen light and window mount. Fits all cars, slides on top of car window and plugs into cigarette lighter. The power plug contains an "on" LED and three position switch to select Yelp, Off or Wail modes. 12 VDC @ 5A. Specify AMBER, BLUE or RED light ea. **\$299.99**



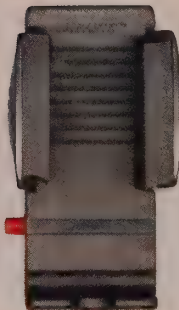
VS-3 Vehicle P/A and Airhorn w/Rebroadcast A big, powerful airhorn sound with 4 different sounds (no siren) calls attention to your vehicle. Delivers 120dBa level at 4 ft. Locking down the microphone with the supplied rubber band, you can monitor sound from a mobile rig, scanner, etc. via the speaker outside. Includes horn speaker, microphone, electronic center, 10 ft. cable, mounting bracket and hardware. 12 VDC @ 1.5A **\$129.99**

VS-4 P/A Emergency Vehicle Siren Contains P/A, rebroadcast, wail, yelp, pulse and airhorn. P/A override features, plus volume control of all siren modes. Restricts output when operating in people places. Includes horn speaker, microphone, electronic center (3 x 3.5 x 2 in.), 10 ft. cable, mounting bracket and hardware. 12V DC @ 1.5A **\$139.99**



RP-001 Mini Multi-Tool 12-function, stainless steel with unique rubberized handle. Folds to 2.5". • Pliers with versatile serrated jaw • Regular and Phillips screwdrivers • Knife blade • Scissors • Nail file and pick • Bottle opener scraper • Wire stripper • Lanyard attachment and key ring **Closeout \$6.99**

RP-103 Multi-Tool 12-function, stainless steel with unique rubberized handle. Folds to 4". **\$6.99**



SUPERIOR ACCESSORIES

18640 Universal Phone HT/GPS Holder (left) Keeps your phone, HT or GPS at your fingertips in your vehicle. Press the red button on side of cradle to open the rubber padded grips. Insert unit, squeeze grips and a ratcheting action adjusts to safely hold units 1.25 to 2.5" wide. Press the button again for quick release. 4.875" tall, attaches to a mount with screws provided..... **\$14.99**

HOU CPM-310 (right) 6" pedestal..... **\$14.99**



WAHL Clipper Corporation

7740 Cordless Soldering Iron Provides tip performance up to 50 watts and over 700°. Contains premium NiCad rechargeable battery for high-rate charging; a partially discharged unit will return to full capacity within 1 to 2 hours, with a complete recharge in 3 to 4.5 hours. Replaceable battery and worklight. Comes with recharging stand, fine and heavy tips **\$47.99**



7971 SolderPro 50 Usable as a soldering iron, torch, hot knife and heat tool using optional interchangeable tips • Heats up from to 410°F to 750°F within 10 seconds • Runs up to 30 minutes • No electrical current • Easy refill, powered by standard cigarette lighter butane (not included) **\$19.99**



7974 SolderPro 70 Usable as a portable soldering iron, torch, hot knife and heat tool using optional interchangeable tips • Heats up from 410°F to 850°F within 10 seconds • Runs up to 120 minutes • No electrical current • Easy refill, powered by standard lighter butane (not included) **\$27.99**



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SOLDER EQUIPMENT

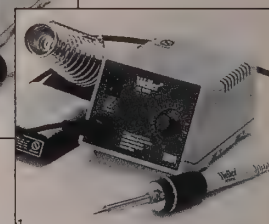
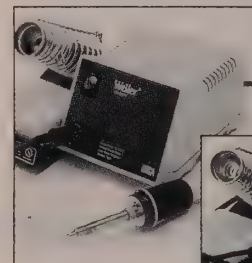
W-60P 60W Pencil-Type Soldering Iron (left) For most circuit work. Supplied with 0.0625" 700°F screwdriver tip. 7.5", 2.5 oz., 6' cord, 120V **\$64.99**

WP-25 25W Pencil-Type Soldering Iron For work on delicate electronics. 750°F tip temperature. 7.875" long, 1.75 oz., 4' cord, 120V AC.... **\$34.99**

WSTA3 Pyropen® Butane Soldering Iron (right w/case) Light-weight and completely portable. Operates up to three hours on a charge of regular cigarette lighter butane (not included). Soldering temperature control is adjustable from 392° to 932°F, with a very fast heat-up time. It's ready to solder in just 30-seconds! Supplied with tips for soldering, hot air (1202°F), and brazing **\$99.99**

WST2 Pyropen® Jr. (middle) Portable mini butane powered soldering iron. Recharges in seconds from a regular cigarette lighter butane (not included). Soldering temperature is adjustable from 392° to 842°F. Also, hot blow feature (806°F) and torch feature (2372°F). Has handy pocket clip **\$89.99**

7200PK Multi-purpose Soldering Gun Compact, lightweight, 75 watts for bigger work. Handles connectors and almost any other heavier soldering job. The flat, self-supporting back acts as a convenient rest when not in use. With carrying case, extra tip and solder. 120VAC **\$29.99**



WTCPT Controlled Output Soldering Station (left) This pencil iron is safe for soldering ICs. Power unit with unitized on-off rocker switch with indicator light. Storage tray holds extra tip and cleaning sponge..... **\$119.99**

EC-1002-1 Compact Soldering Station (right) Soldering pencil stand connects to right or left side of unit. Variable temperature, indicator light, self feeding reservoir with cleaning sponge. Tray stores extra temperature sensing tips **\$199.99**

Rediscover Your History



The **Land Star™** has more features than other costly detectors. Includes a **BOUNTY D-Tech™** open-face search coil, advanced micro-

processor electronics, 3-tone discrimination and Ground Trac® retune. A multi-function LCD & touchpad control make it equally at home relic hunting, coin shooting, or gold prospecting. Set the notch to reject items, or let "Auto Notch" detect coins 12" deep. \$349.99



Newcomers to treasure hunting should not be short-changed when it comes to features — or quality. That's why there's the **Fast Tracker™**.

It offers 7" **BOUNTY D-Tech™** search coil (adjustable angle), dual-tone audio discrimination, motion all-metals mode, auto ground balance, low-battery alert, built-in speaker, headphone jack, and lightweight S-rod comfort-grip handle with stand. \$99.99



Treasures missed by generations won't escape the **Sharp Shooter II™**. Comes with digital LCD readout, touchpad control, and interchangeable **BOUNTY D-Tech™** search coil. Also features

3-tone audio discrimination, selectable auto/manual notch level, auto ground balance, battery indicator, S-rod comfort-grip handle with stand, headphone jack, and built-in speaker. \$279.99



The optimum combination of power, ease-of-use, affordability, and big finds — every time: the **Bounty Hunter Tracker IV™**.

Built with a fully-submersible 8" **BOUNTY D-Tech™** search coil, sensitivity meter, built-in speaker, headphone jack and battery indicator. Tracker IV features 3 different user-adjustable operating modes: Motion All-Metals Mode, Full Discrimination, and Tone Discrimination. \$129.99



Offering high-end features for the serious detectorist, the **Land Ranger** is designed for every metal detecting application at a pro level. Touchpads keep all modes at quick and easy access while

the LCD emits a constant reference source maximizing every possibility for finding treasure. It features an 8" waterproof, interchangeable search coil and SmartTrac® ground control. \$449.99

As we roam the desert looking for points of interest, most of us miss a golden opportunity to find items from the past. There are millions of pieces of history still buried in the Southwestern Deserts — just out of eyesight, but not out of the range of a metal detector . . . Not all items of history are worth a lot of money, but they can have interest value nonetheless.

During the past 20 years, I've found coins, toys, rings, watches and a variety of artifacts . . . I find that when I am metal detecting for items of history, I get the same thrill finding a mule shoe or old tin cup as I do finding an 1872 half-dollar.

"Discovering the Past with Metal Detectors"
— Joseph Johaneck



The **Bounty Hunter Quick Draw II™** metal detector packs powerful features, like an advanced

Zilog Z-86 circuit, for superior discrimination and control. Also includes waterproof **BOUNTY D-Tech™** search coil, 3 levels of iron discrimination, both target ID and depth readout, sensitivity control, full discrimination, auto and variable notch, and low battery indicator. Detects up to 10" deep — larger objects up to 5'. \$224.99



Recover more relics and valuables from the past than ever before. The **Time Ranger's** powerful circuitry and smooth operation combine to deliver absolute performance. The

innovative Sniff-Mode can be used in specialized applications when rejection/acceptance of a particular object is desired. \$549.99

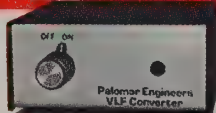


Q-VIEW OSL CARD HOLDERS

Proudly display your favorite QSL cards in these 12" x 40" clear plastic hanging holders. Each holds 20 3.5" x 5.5" cards. Open at center to receive cards easily. Pack of three (displays 60 cards) **\$12.99**



Palomar Engineers



VLF CONVERTERS

Receives and converts 10kHz-500kHz (VLF) to tune on the 80M band. 2 models tune this low range on either a general coverage receiver or Ham band transceiver. Uses 9V battery. 2" h x 4.25" w x 5" d.

VLF-A Use with Ham band transceiver.... **\$99.99**

VLF-S Use with general coverage receiver. **\$99.99**



OREGON SCIENTIFIC

NEW

JMR-828 ExactSet™ Jumbo Clock with Cable Free™ Remote Temperature Sensor

The backlit electroluminescence LCD with large, 3" digits is easily seen from across the room. Displays in/outdoor temperature (-4°F to 140°F), 12-hour clock and month/day calendar in English, French or Spanish. The clock sets itself automatically to the U.S. atomic clock 6 times every 24 hours. A U.S. map display shows designated time zones. Operates on 433MHz up to 100' from the remote sensor. Requires four AAA batteries..... **\$69.99**



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BOUNTY HUNTER ACCESSORIES

CARRY BAG Padded Carrying Case Protects metal detectors from the elements, in storage, and in transit. Made of rugged, double-stitched, nylon construction. Includes handy outside zip-pocket for extra batteries to small accessories..... **\$29.99**

10" COIL 10-inch Magnum Coil Adds extra depth for relic and cache hunting **\$59.99**



MEJ ENTERPRISES, INC.

NEW



1275/1275M Sound Card-to-Rig Interface Connect between a transceiver and computer and enjoy all digital modes without additional equipment. Operate PSK-31, packet, APRS, AMTOR, RTTY, SSTV, CW, HSCW meteor scatter, contest voice keying, contest memory keyer, etc. Internal jumpers program mic wiring for any radio. Includes audio cables, power plug and a CD with a collection of the most popular amateur radio software to operate the digital modes. Requires 12VDC (110 VAC with optional adapter). Order 1275 for 8-pin round mic plug or 1275M for 8-pin modular ea. **\$89.99**

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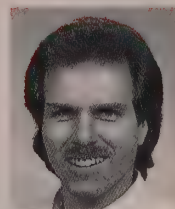
CARL W9CLH



RICHARD K9RWE



GARY L. KA9YTB



JEFF N9EDQ



JIM WJ9P



MIKE N9LBQ
SALES MANAGER



PAUL W9KHO



RAY W9KHH



SKIP KB9PBQ



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STORE MANAGER



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DAVE WB8BAG



PHILLIP KB8GA



ROD WN8R

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ART K7ZE



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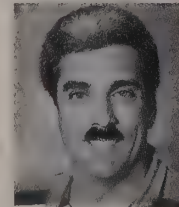
JIM WD6FYX



LUKE KK7BW
STORE MANAGER



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TOM N7GBJ

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Hablo español



ERNIE K1HO



GRANT K4IQW
STORE MANAGER



LUIS WP4JSR
Hablo español



GEORGE K2WO



RODRIGO TI2WD
Hablo español

CALL 414-358-4087 for SERVICE

Unlike some dealers, when you purchase a New radio from us our Service Department is able to provide you with outstanding technical support. Our technicians have decades of cumulative experience in the Ham Radio service field.



Miles, K9HMQ (Service Mgr.)



STEVE, N9SO



BOB, WX9Z

Warranty Service

New radios purchased from AES within the manufacturers' warranty period will be repaired at no charge by AES or the manufacturer. Please refer to manufacturers' warranty information when unsure of warranty time periods.

Out-Of-Warranty, Late Model Equipment

Whether the item was purchased from us or not, we will attempt to service it, provided service parts are still available. Before shipping your out-of-warranty items, arrangements must be made by phoning the Milwaukee Service Department at 414-358-4087

Shipping Equipment for Service

Before sending your item, make sure you contact the nearest AES location and find out the time frame for repairs. If you are concerned about time limitations, this will help you determine where to send the repair and how long your radio will be out.

Always include the following along with the item being shipped:

- a detailed note describing the problem(s)
- your address, day-time phone number, and email address
- a copy of the original invoice, if item is still under warranty
- the method of payment (see Policies page for options)

After packing your item securely in a box with ample packing materials (foam, styrofoam spacers, etc.), mark the shipping label "Attn: Service", and always adequately insure your items.

Labor Rates

- \$60 per hour for Out-Of-Warranty Service
- \$80 minimum on HF/VHF Base Stations
- \$60 minimum on VHF Mobiles and Handheld Transceivers
- Rates do not include Parts, Return Shipping or Handling Charge

Shipping Information

FLAT RATE SHIPPING via UPS Ground Method in the Lower 48 States

AMOUNT OF ORDER	SHIPPING CHARGES
Up to \$100.00	\$4.99
\$100.01 to \$500.00	\$9.99
\$500.01 to \$1,499.99	\$14.99
\$1500.00 & UP	PREPAID

Flat Rate Does Not Apply To Drop Shipments

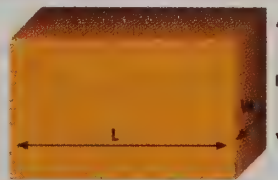
Flat Rate Advantage - No Penalty for Number of Cartons or Weight!

EXCEPTIONS TO RATES ABOVE

Optional UPS methods (Red, Blue & Orange) and any USPS methods are charged at Regular Rates without any credit for UPS ground rates. COD's are not accepted for these other methods.

Shipments to APO/FPO go via Priority Mail. Puerto Rico, Alaska and Hawaii can be shipped to via Priority Mail or Blue Label. Orders exceeding UPS or USPS weight, size or value limits will be shipped via Truck or Air Freight collect. Shipping charges taxable in WI, FL & NV.

Please see **Policies Page** for complete information.



$$\frac{L \times W \times H}{194} = \text{Dimensional Weight}$$

Packing

When returning heavy, delicate, and expensive equipment, it must be carefully packed in order to avoid damage caused by normal transportation dynamics. In other words, if you put your FT-1000D, TS-940S or AL-1500 in a box with little or no packing beneath it, chances are it will sustain some damage. When contents of packages are damaged, claims will be paid only if the carton and packing meet standards set in the International Safe Transit Association Procedure 1 and 1-A. These standards simply state that cartons and packing should provide reasonable protection to their contents. Ideally, contents should be suspended in the center of the carton by the packing material, no less than three inches on all sides for heavy items. For items heavier than 20 pounds, three inches of foam or crumpled paper should be used instead of polystyrene egg protectors.

Include information

When you send your well-packed parcel to AES for repair, return or trade-in, be sure to include a letter inside the package. Do not rely on information written or taped on the outside of the carton. This information can be destroyed by moisture or abrasion. In the letter, put your call, name, address, phone and reason for return. You may also want to include your e-mail address and times you can be reached via telephone.

Dim Weight

When calculating the cost of air shipments, whether Fed-Ex, UPS or other carrier, remember that they use dimensional weight. Dim weights are used to insure adequate revenues per cubic foot of cargo plane space. The formula used to calculate dimensional weight is: $L \times W \times H$ divided by 194. This means a 12" x 13" x 16" box that weighs six pounds will be sent at the twelve pound rate when an air service is used.

TRACKING NUMBERS for out-bound shipments are gladly given. Call our local number, 414-358-0333, and ask for our Tracking Number Service.

COD ORDERS Minimum COD order is \$20.00, shipment via UPS Ground only (no air or parcel post). The flat-rate, plus a \$7.00 COD fee per package applies. Payment by money order or certified check, only.

DAMAGED ITEMS If you discover a damaged shipment, **THE CARRIER SHOULD BE NOTIFIED IMMEDIATELY.** The merchandise should not be returned to us until notified to do so by the carrier. All packaging materials must be retained including styrofoam peanuts, inner and outer cartons, labeling, etc. for inspection by the carrier or the claim may be denied. With shipments properly packaged (as all our shipments are), the ultimate responsibility for delivery in good condition rests with the carrier.

DEFECTIVE ITEMS Defective items should be returned to Amateur Electronic Supply or the manufacturer for warranty repair or replacement, at our discretion. After processing, we will return it via UPS Ground, prepaid at our expense. If you receive defective equipment, call our Customer Service Department at 414-358-4087 for instructions. Canadians please see "**Canadians Note:**" under TRADE-INS.

INTERNET ORDERS The customer may order products directly on our web site via our internet order form. If the customer does not have access to the web, but has an e-mail account, the customer may e-mail his/her order making sure the following information is included: full name, call sign (not required to order), phone number, billing address, shipping address, item(s) to be purchased (model number and manufacturer) and method of payment. If paying by credit card, we need the card number and expiration date.

PAYMENT Accepted forms of payment are electronic bank transfer, certified check, personal check, money order, credit card (VISA, MasterCard, Discover, American Express, IMPAC), or COD. The customer's choices of payment methods may depend on amount of purchase or destination of shipment.

PRICING We will pass on decreases in pricing to our customers whenever possible. Due to foreign currency fluctuations, promotions, manufacturers' specials, etc.; prices may vary, so be sure to confirm prices when ordering. All prices and specifications are subject to change without notice. **AMATEUR ELECTRONIC SUPPLY®** is not responsible for typographical errors or omissions.

REFUNDS Amounts under \$5.00 are not refunded unless requested in writing to the Milwaukee headquarters within 12 months.

RETURNS In order to maintain the lowest possible prices, we do not offer a *free trial* or *evaluation period* on new equipment. If permitted, an **Authorized** return of merchandise for credit (it must be like new with all original packaging) will be subject to a **Minimum 15% Restocking Fee.** The item must be returned within **10 days** after receipt, prepaid, with a copy of the purchase invoice and a letter describing the reason for the return. No returns on antennas, towers, cable, items drop-shipped from the manufacturer, audio or video tapes, kits, books, or computer software. Canadians please see "**Canadians Note:**" under TRADE-INS.

SHIPPING Shipping charges, which include adequate insurance, are

based on the Order Total at the time of the initial shipment (COD fees not included). The order amount on which charges are determined is pre-coupon and pre-tax. Cancellations on partially shipped orders will not affect the shipping charges. All back-orders from partially shipped orders are shipped PREPAID at the expense of AES® via UPS Ground Service, only.

Shipping calculations on UPS Ground method to the contiguous 48 states have been simplified by utilizing flat-rate categories. Other UPS methods (Red, Blue & Orange) and any USPS methods are charged at regular rates without any credit for UPS ground rates. CODs are not accepted for these faster methods.

Shipments to APO/FPO are via Priority Mail. Orders exceeding UPS or USPS weight, size or value limits will be shipped via Truck or Air Freight collect. Shipping charges taxable in WI, FL & NV.

To insure orders arrive quickly, AES stocks items at all four locations. Occasionally, an item will be temporarily unavailable at certain branches, due to various reasons. In this case, AES will ship the order from a location that has the needed item.

TRADE-INS Amateur Electronic Supply® accepts trade-ins on new equipment purchases, the worth of which is determined by the electrical and physical condition of the item. Estimates are given assuming the trade-in is in good electrical and physical condition. If it is not, a deduction will be made.

To facilitate a trade-in, the customer can choose one of the following: (A) Purchase the new item(s), send in the trade for evaluation, and have the trade-in amount refunded or credited. (B) Send in the trade and have the order held until the trade-in amount is determined.

When shipping trade-ins for evaluation, use a sturdy carton (double boxing is recommended) and plenty of packing material (see pg. 156). Ship PREPAID & FULLY INSURED. Do not use Bus or Parcel Post. Collect shipments will not be accepted.

AES® assumes no responsibility for damage in transit or for filing of damage claims. Canadians, inquire locally about taxes and/or customs charges before releasing your shipment.

Canadians Note: Returned equipment not originally manufactured in the U.S. will be subject to valuation and custom charges, plus broker's fees. Check customs before shipping anything to us, including new equipment for warranty repair. We will not accept any shipments from outside of the U.S. unless all fees are paid in advance.

BIDS & PURCHASE ORDERS AES® accepts written and signed Purchase Orders from well rated D&B companies, military, schools, colleges, universities and federal, state, county and city Government agencies. We welcome the chance to bid on your requirements and search the Internet daily for requests from all Government agencies. We are registered with FACNET and accept Government I.M.P.A.C.® charge cards. Net terms available to Government agencies, schools, and companies highly rated in Dunn & Bradstreet.

For more information, please contact Paul Szczerbinski, W9KHO (pauls@aesham.com) at AES® Milwaukee. Toll Free: 1-800-558-0411, Local: 414-358-0333 or Fax: 414-358-3337



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


[illegible]

LINE 1 — TRADE-IN Allowance (if any) *Enclose mail quotation or reference telephone quote & list Trade-in items on line provided below.*

IMPORTANT! Persons having a Trade-in must check one of the following: (Also, see more important information on previous page and on Policies page.)

- ☐ Hold this order until you receive and approve my trade-in.
- ☐ Payment in-full enclosed. Refund allowance when my trade-in is received and approved.
- ☐ Charge the FULL AMOUNT of my order to my Charge Card and Credit my trade-in allowance when my trade-in is received and approved.

LINE 4 — Credits: AES Refund Checks, Gift Certificates or Manufacturer's Coupons (if any)	-
--	---

We accept I.M.P.A.C. [®] Government Credit Cards								LINE 6 — Due AES from previous order (if any)	+
								TOTAL AMOUNT DUE	

Account Number ☐ Bank transfer ☐ Certified check ☐ Personal check ☐ Money order

DO NOT MAIL CURRENCY. Send bank check or money order. Personal check may delay shipping until it clears our bank. Attach remittance to top of order blank.

\$

Cardholder's Signature	Date	<input type="checkbox"/> COD \$7.00 fee per package. Money Order or Certified Check Only. MINIMUM \$20.00 COD ORDER - NO AIR OR PARCEL POST COD's
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MILWAUKEE, WI M&I Marshall & Ilsley Bank, Milwaukee, WI ABA #075000051. Further credit to M&I Northern Bank credit account #8827510 in the

BANK TRANSFER INFO. **MILWAUKEE, WI** M&I Marshall & Ilsley Bank, Milwaukee, WI. ABA #075000051. Further credit to M&I Northern Bank, credit account #8637510 in the name of Amateur Electronic Supply. **WICKLIFFE, OH** Key Bank, Wickliffe Branch, 29310 Euclid Avenue; Wickliffe, OH 44092. Routing #041001039 for credit to: Amateur Electronic Supply Account #350341002268. **ORLANDO, FL** Bank of America, Fashion Square Branch, Orlando, FL. Routing #063100277 for credit to: Amateur Electronic Supply Account #2836088068. **LAS VEGAS, NV** M&I Marshall & Ilsley Bank, Milwaukee, WI. ABA# 075000051. Further credit to M&I F.S.B. Las Vegas, credit account #19696116 in the name of Amateur Electronic Supply.

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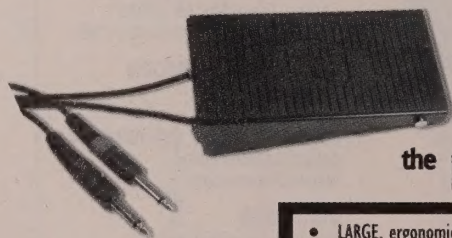
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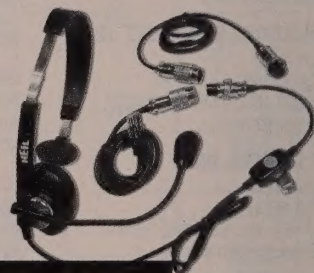


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IV. Class-A SSB Operation

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■ Frequency Coverage: (RX) 100 kHz-30 MHz; (TX) 160-10 m Amateur Bands ■ Dual In-band Receive w/Separate "S" Meters ■ Ten Pole Collins® Mechanical Filter Built-in ■ RX DSP Noise Reduction and CW Peaking Filter ■ High-speed Automatic Antenna Tuner ■ Two TX/RX Antenna Jacks plus RX-only Jack ■ TX Microphone Equalizer ■ RF Speech Processor ■ Direct Digital Synthesis ■ CW Spot and Two Key Jacks ■ Two Headphone Jacks (1/4" and 3.5 mm) ■ Low-Level Transverter RF Drive Jack ■ Separate FP-29 Power Supply (30 V/13.8 V DC output)



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* The FT-1000/-1000D/-990/-840 do not support the illumination of the TX LED during transmission.

Expand Your DX Horizons With The FTV-1000 50 MHz Transverter!

- 50 MHz Transverter with 200 W PEP Power Output
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Specifications

Frequency Range: 50-54 MHz
Antenna Impedance: 50 Ohms
Power Output: 200 Watts PEP
Spurious Emissions: At least 60 dB down
Power Source: DC 30 V and 13.8 V (supplied by FP-29 Power Supply of MARK-V)
Dimensions: 9.6" x 5.4" x 13" WHD (243.5 x 136.5 x 331 mm)

200 W 50 MHz Transverter

FTV-1000

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Specifications subject to change without notice. Some accessories and/or options may be standard in certain areas. Frequency coverage may differ in some countries. Check with your local Yaesu Dealer for specific details.

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New IC-746PRO. THINK OF IT AS A 32 BIT IF-DSP HOT ROD!



Supercharged Performance!

REVVVVV up your HF/6M + 2M ops with ICOM's new IC-746PRO. This Hot Rod combines the latest cutting edge technology from the digital and analog world! The new, all mode, 746PRO has the familiar look and feel of the 746 - but that's where the similarity ends! Sharing the same powerplant as the 756PROII, the 746PRO offers great 32 bit IF-DSP performance and many new features not normally found on rigs in this class. Features like selectable IF Filter Shape characteristics; SSB/CW Synchronous Tuning; Rx Equalizer for great audio; Variable Level Noise Blanker; and much more. Pick up a 746PRO and leave the competition in the dust. See your AES dealer to find out more!

- **32 BIT FLOATING POINT DSP & 24 BIT AD/DA CONVERTER.** At the heart of the 746PRO, the DSP is an incredible tool for handling the QRM found on the bands.
- **SELECTABLE DIGITAL IF FILTER SHAPES FOR SSB & CW.** Tailor the filter shape & bandwidth to your personal operating preferences. Sharp for selectivity & signal fidelity, soft for readability.
- **AGC LOOP MANAGEMENT.** Multiple AGC loops, controlled by the 32 bit DSP filter out unwanted interfering signals.
- **AUTOMATIC NOTCH FILTER.** Perfect for SSB operation - eliminate annoying heterodynes and "tune up", without effecting the receive audio.
- **MANUAL NOTCH FILTER.** Perfect for CW or digital operations, the 70db manual notch filter eliminates unwanted signals without effecting the actual passband of your filters.
- **DIGITAL TWIN PASSBAND TUNING.** Great for crowded bands, or contests, eliminates interfering signals by narrowing or shifting the IF passband.
- **BUILT-IN RTTY DEMODULATOR & DECODER.** External units or PCs are no longer required for RTTY decoding.

IC-746PRO. Leave the competition in the dust.

HF/6M/2M • 100W • All Mode • Enhanced Rx • 9600 Baud Ready • 32 Bit IF-DSP & 24 Bit AD/DA Converter • Independently Selectable IF Filter Shapes For SSB & CW • SSB/CW Synchronous Tuning • Built-in RTTY • Variable Level Noise Blanker • Auto & Manual Notch Filter • Digital Twin Passband Tuning • Mic Equalizer • CW Memory Keyer • VOX • Auto Antenna Tuner

- **DIGITAL RF SPEECH COMPRESSOR.** Utilizes the 32 Bit DSP to provide maximum punch without fuzzy sound.
- **MIC EQUALIZER.** 121 varieties of equalized audio can be set, tailored to operating style & mic characteristics.
- **TX AUDIO PASSBAND.** Great for "Perfect Audio" - select from 2.2, 2.4, & 2.8 kHz bandwidths.
- **RECEIVE AUDIO EQUALIZER.** Set the audio style to ease listening fatigue during long hours of operation.
- **SSB/CW SYNCHRONOUS TUNING.** No longer worry about changing from SSB to CW, the radio automatically shifts the VFO without losing the CW station you were copying.
- **ADJUSTABLE NOISE BLANKER.** Adjustable in 101 steps to eliminate distortion of the desired signal.

Get in the drivers seat

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